



UNIVERSIDAD DE SONORA

Hermosillo, Sonora, a 14 de Junio de 2018.

DIVISION DE CIENCIAS EXACTAS Y NATURALES



Of. No. 276/2018.

Dra. Rosa María Montesinos Cisneros
Secretaria Técnica del H. Colegio Académico
Universidad de Sonora
Presente.

Por este medio y en seguimiento al acuerdo de la Sesión No. 445 del H. Consejo Divisional de la DCEN, realizada el 11 de mayo de 2018, solicito a Usted, amablemente, presente ante el H. Colegio Académico la propuesta de ingreso como **Profesor-Investigador Extraordinario por Tiempo Indeterminado del Dr. Daniel Tapia Takaki**.

Esta propuesta de ingreso del Dr. Tapia Takaki como profesor-investigador extraordinario a la Universidad de Sonora, se justifica en la necesidad de contar con los recursos humanos que apoyen el cumplimiento de los planes y fines descritos en el nuevo Plan de Desarrollo Institucional 2017-2021, que contempla, como parte de los programas estratégicos, la internacionalización de los programas educativos y de investigación de la Universidad de Sonora.

El Dr. Tapia Takaki se adscribiría al Departamento de Investigación en Física, para desarrollar las siguientes tareas específicas:

- Realizar investigación en Física de Altas Energías o en áreas interdisciplinarias y de innovación como Física Médica.
- Coordinador las actividades del grupo de Física de Altas Energías e implementar los acuerdos institucionales entre CERN y UNISON.
- Impartir cursos especializados en Física de Altas Energías o en áreas interdisciplinarias y de innovación conectadas con esta disciplina como en Física Médica.
- Dirigir investigaciones y proyectos encaminados a la elaboración de tesis de estudiantes de licenciatura y posgrado de la UNISON.
- Coordinar el Programa Internacional de Física de Altas Energías de la UNISON.
- Coordinar el Programa de doble titulación dentro de los programas de posgrado de la Universidad de Sonora, vinculados con la Universidad de Kansas y proyectos internacionales con el CERN, la Universidad de Catania y otros proyectos internacionales que se desarrollen en el futuro.
- Supervisar las propuestas de proyectos de investigación internacional vinculadas con proyectos con el CERN.
- Coordinar las actividades del Centro para la Física Fundamental entre la UNISON y University of Arizona.

Finalmente, enfatizo que Dr. Tapia Takaki tiene la formación, experiencia y trayectoria académica, así como los méritos académicos, de docencia e investigación a nivel internacional y con reconocimientos que fundamentan y justifican esta propuesta de incorporarlo como profesor extraordinario en la institución, siendo un líder a nivel internacional de la física de colisiones ultra-periferias y procesos foto-nucleares.

Sin otro particular se comunica lo anterior para su conocimiento.

Atentamente,

"El Saber De Mis Hijos Hará Mi Grandeza"

Dr. Rodrigo Meléndrez Amavizca
Presidente Del H. Consejo Divisional
De La División De Ciencias Exactas Y Naturales



El saber de mis hijos
hará mi grandeza
División de Ciencias
Exactas y Naturales

c.c.p. Archivo Consejo Divisional.
c.c.p. Minutario.



"El saber de mis hijos
hará mi grandeza"

UNIVERSIDAD DE SONORA

Departamento de Investigación en Física

Hermosillo, Sonora, a 25 de abril de 2018
Oficio núm.: DIF-037-2018

**H. CONSEJO DIVISIONAL DE LA
DIVISIÓN DE CIENCIAS EXACTAS Y NATURALES
UNIVERSIDAD DE SONORA**
Presente.-



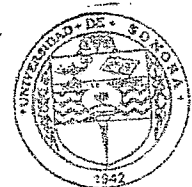
Por medio de la presente y de la manera más atenta, tengo a bien solicitar la aprobación de la contratación como Profesor Investigador Extraordinario por tiempo Indeterminado del Dr. Daniel Tapia Takaki. En relación a esta solicitud, se anexa su curriculum vitae para su consideración.

Además, el Dr. Tapia realizará las funciones que se detallan en su plan de trabajo anexo.

Sin otro particular por el momento aprovecho la ocasión para reiterarle las seguridades de mi más atenta y distinguida consideración.

ATENTAMENTE
"EL SABER DE MIS HIJOS HARÁ MI GRANDEZA"

DR. MARTÍN R. PERROZA MONTERO
JEFE DEL DEPARTAMENTO DE INVESTIGACIÓN EN FÍSICA



El saber de mis hijos.
hará mi grandeza
DEPARTAMENTO
DE INVESTIGACIÓN
EN FÍSICA

Anexo copias fotostáticas: CV resumido, Propuesta de Proyecto, Acta de Nacimiento, Último grado de estudios, Comprobante de domicilio, Identificación oficial, CURP, RFC.

C.c.p. Archivo

Curriculum Vitae

April 27, 2018

***Missing updating some publications & presentation at conferences**

NAME: Tapia Takaki, J. Daniel

Education

Ph.D., Physics, January 2008
The University of Birmingham, Birmingham, UK

M.Sc., Physics, September 2004
Universidad de Sonora, Hermosillo, Mexico

B.A., Physics, June 2003
Universidad de Sonora, Hermosillo, Mexico

Employment History

Professional

Member of the ALICE Collaboration at LHC, CERN, Geneva, Switzerland, 2004 - Present
Research Associate, CERN, Geneva, Switzerland, June 2010 - October 2010
Write up of a ALICE Scientific note; ALICE-SCIENTIFIC-NOTE-2011-001
Research Associate, University of Birmingham, Birmingham, UK, January 2008 - April 2008
Particle Physics Research Group. Mentoring graduate students. Preparing Monte Carlo simulations for proton-proton minimum bias studies

Research

Adjunct Faculty. University of Sonora, Sonora, Mexico. Fall 2017 - Present

Assistant Professor, University of Kansas, Lawrence, KS, August 28, 2013 - Present
Experimental Nuclear Physics

Research associate, Université Paris-sud & CNRS, Orsay, France, November 2010 - Present
CNRS paid. IPN Orsay (CNRS/IN2P3). Prepared UPC triggers for the proton-lead run expected in early 2013. Exclusive dimuon production in 7 TeV proton-proton collisions. "Coherent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV", arXiv:1209.3715. Accepted by Phys.Lett.B

Postdoctoral Research Associate, Université Paris-sud & CNRS, Orsay, France, 2008 - 2010
Research Associate, P21 Fellowship, Université Paris-sud & CNRS, Orsay, France, July 2008 - June 2010

IPN Orsay (CNRS/IN2P3), Main author of ALICE publication: J/ψ production in p+p collisions at $\sqrt{s} = 7$ TeV (Phys.Lett.B704:442-455,2011). Luminosity determination for physics analyses in p+p collisions at 7 TeV with the ALICE experiment. Acceptance and efficiency corrections for J/ψ analysis, as well as background subtraction methods. Realistic simulations for quarkonia studies.

Academic

Computing Lab Demonstrator, University of Birmingham, Birmingham, UK, 2005 - 2007

Physics project in C++, under the supervision of Prof Bill Chaplin

Teaching assistant on Classical Mechanics, Universidad de Sonora, Autumn 2000 - Autumn 2004

Under the supervision of Dr Marcelino Barboza Flores, 4 terms, Autumns

Tutor on Mathematical Methods of Physics, Universidad de Sonora, Autumn 2003

Under the supervision of Prof Antonio Jauregui

KU Teaching Record

A. List of Courses Taught

Course Number	Course Title	Sem/Year	# Enrolled	% Taught
PHSX 313-55089	General Physics III	Spring 2018	35	100
PHSX 501-60294	Honors Research	Spring 2018	1	100
PHSX 503-60295	Undergraduate Research	Spring 2018	1	100
PHSX 999-60298	Ph.D. Dissertation Research	Spring 2018	1	100
EPHX 521-11549	Mechanics I	Fall 2017	6	100
PHSX 501-20647	Honors Research	Fall 2017	1	100
PHSX 503-20648	Undergraduate Research	Fall 2017	1	100
PHSX 521-13151	Mechanics I	Fall 2017	26	100
PHSX 999-20651	Ph.D. Dissertation Research	Fall 2017	1	100
PHSX 501-85532	Honors Research	Summer 2017	1	100
PHSX 999-85536	Ph.D. Dissertation Research	Summer 2017	1	100
EPHX 503-61393	Undergraduate Research	Spring 2017	1	100
PHSX 213-53138	General Physics I Honors	Spring 2017	16	100
PHSX 313-55509	General Physics III	Spring 2017	47	100
PHSX 501-61395	Honors Research	Spring 2017	1	100
PHSX 999-61399	Ph.D. Dissertation Research	Spring 2017	1	100
PHSX 999-22019	Ph.D. Dissertation Research	Fall 2016	1	100
PHSX 501-86086	Honors Research	Summer 2016	1	100
PHSX 999-86090	Ph.D. Dissertation Research	Summer 2016	1	100
PHSX 999-62570	Ph.D. Dissertation Research	Spring 2016	1	100
PHSX 501-23365	Honors Research	Fall 2015	1	100
PHSX 711-13769	Quantum Mechanics I	Fall 2015	16	100
PHSX 999-23369	Ph.D. Dissertation Research	Fall 2015	1	100

EPHX 501-86748	Honors Research	Summer 2015	1	100
PHSX 501-86785	Honors Research	Summer 2015	1	100
PHSX 999-86789	Ph.D. Dissertation Research	Summer 2015	1	100
PHSX 313-56500	General Physics III	Spring 2015	56	100
PHSX 316-56502	Intermedt Physics Laboratory I	Spring 2015	12	20
PHSX 316-56503	Intermedt Physics Laboratory I	Spring 2015	12	20
PHSX 316-56504	Intermedt Physics Laboratory I	Spring 2015	11	20
PHSX 316-56505	Intermedt Physics Laboratory I	Spring 2015	11	20
PHSX 316-56506	Intermedt Physics Laboratory I	Spring 2015	10	20
PHSX 999-64654	Ph.D. Dissertation Research	Spring 2015	1	100
PHSX 711-14155	Quantum Mechanics I	Fall 2014	24	100
PHSX 999-25455	Ph.D. Dissertation Research	Fall 2014	1	100
PHSX 501-87852	Honors Research	Summer 2014	1	100
PHSX 521-62516	Mechanics I	Spring 2014	12	100
PHSX 899-67037	Master's Research/Thesis	Spring 2014	1	100
PHSX 711-14560	Quantum Mechanics I	Fall 2013	23	100

B. Undergraduate Advising Record

University of Kansas

Undergraduate Student Research Advisor

Mariana Vasquez Sanchez, June 2015 - August 2016

Daniel M Rhodes, B.Sc. in Physics, January 2013 - May 2016

Pierce Giffin May 2017 - May 2018

Undergraduate Student Research Supervisor

Cesar O.M. Avalos Baddouh, May 2015 - March 2018

Benemerita Universidad Autonoma de Puebla

Undergraduate Student Research Advisor

Rafael Espinosa Castaneda, "Development of STARLIGHT-DPMJET Monte Carlo," May 2016 - September 2016

After working with me the student went to study a Master in Theoretical Physics at the University of Cambridge, UK.

C. Graduate and Postgraduate Advising Record

Committee Chair: Doctoral

CINVESTAV Mexico City

Dissertation Committee Chair

Rigoberto Cruz Albino, Physics Department, August 31, 2016 (completed)

Co-supervision with Dr Gerardo Herrera

Committee Chair: Masters

FCFM BUAP, Puebla

Maestría (Master's) Committee Chair

Gibraham Ivanhoe Napoles Canedo, August 2012 - July 2013 (completed)

Co-supervision with Dr Arturo Fernandez

Other Graduate Committee Service

University of Kansas

Dissertation Committee Examiner

John Martens, May 2016 - Present

Graduate Student Research Advisor

Samuel S Boren, January 2014 - Present (to be completed by July 2018)

Research

John Martens, "Research stay at CERN working on quantum tomography using lepton pairs.," July 2, 2016 - July 28, 2016

CERN

Graduate Student Research Supervisor

Two summer students were supervised at CERN, 2010

FCFM BUAP, Puebla

Licenciatura Thesis Committee Chair

Salvador Sosa Güitrón, 2012 (completed)

Co-supervision with Dr Arturo Fernandez

Universidad Autónoma de Zacatecas (Mexico)

Licenciatura Thesis Committee Chair

Nayeli Azucena Rodriguez Briones, 2010 - 2011 (completed)

Co-supervision with Dr Arturo Fernandez

Université Paris-sud

M1 Graduate Student Chair

Romain Faubert, March 2013 - June 2013 (completed)

Postdoctoral Fellows

University of Kansas

Postdoctoral Research Supervisor

Raymond P Kenny, November 3, 2014 - November 2, 2015
Magdalena Malek, Heavy-ion physics research with CMS, March 17, 2013 - January 26,
2014

Former postdoc, CINVESTAV

Postdoctoral Research Advisor
Veronica Canoa Roman, 2010 - 2012

Moscow Institute of Physics and Technology, MIPT, Moscow, Russia National Research Nuclear
University MEPhI, Moscow, Russia

Postdoctoral Research Advisor
Alexander Bylinkin, "Exclusive Rho0 photoproduction cross section in p-Pb collisions with
the CMS experiment," January 2016 - Present

D. Honors and Awards for Teaching

Research Record

A. Research Publications and/or Creative Works

Major Publications or Creative Works

1. Abelev, B. B., Daniel Tapia Takaki, et al. (Refereed)
ALICE Collaboration
2. Cartiglia, N., Daniel Tapia Takaki, et al. "LHC Forward Physics." (Refereed)
LHC Forward Physics Working Group Collaboration
CERN-PH-LPCC-2015-001, SLAC-PUB-16364, DESY-15-167
3. ALICE, Daniel Tapia Takaki, et al. 2017. " J/ψ suppression at forward rapidity in Pb-Pb collisions at LHC." *Physics Letters B* (North-Holland). (Refereed)
4. ALICE, Jaroslav Adam, and Daniel Tapia Takaki, et al. 2017. " ϕ -meson production at forward rapidity in p-Pb collisions at $\sqrt{s_{NN}}=5.02$ TeV and in pp collisions at $\sqrt{s}=2.76$ TeV." *Phys. Lett. B* 768: 203-217. doi:10.1016/j.physletb.2017.01.074. (Refereed)
5. Acharya, S, A Baldissieri, H Borel, J Castillo Castellanos, JL Charvet, A Lardeux, S Panebianco, H Pereira Da Costa, A Rakotozafindrabe, L Aphecetche, and Daniel Tapia Takaki, et al. 2017. "First measurement of jet mass in Pb-Pb and p-Pb collisions at the LHC." (Refereed)
6. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurements of the pp to W gamma gamma and pp to Z gamma gamma cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s}=8$ TeV." *JHEP* 10: 072. doi:10.1007/JHEP10(2017)072. (Refereed)
7. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Particle-flow reconstruction and global event description with the CMS detector." *JINST* 12 (10): P10003. doi:10.1088/1748-0221/12/10/P10003. (Refereed)

8. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS." *Phys. Rev. C* 96 (6): 064902. doi:10.1103/PhysRevC.96.064902. (Refereed)
9. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s} = 13$ TeV." *Phys. Lett. B* 775: 315-337. doi:10.1016/j.physletb.2017.11.001. (Refereed)
10. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s} = 8$ TeV." *JHEP* 11: 010. doi:10.1007/JHEP11(2017)010. (Refereed)
11. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for dark matter produced in association with heavy-flavor quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Eur. Phys. J. C* 77 (12): 845. doi:10.1140/epjc/s10052-017-5317-4. (Refereed)
12. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV." *JHEP* 11: 085. doi:10.1007/JHEP11(2017)085. (Refereed)
13. CMS, A M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Lett. B* 772: 336-358. doi:10.1016/j.physletb.2017.06.064. (Refereed)
14. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "A search for Higgs boson pair production in the bb tau tau final state in proton-proton collisions at $\sqrt{s} = 8$ TeV." *Phys. Rev. D* 96 (7): 072004. doi:10.1103/PhysRevD.96.072004. (Refereed)
15. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV." *Phys. Lett. B* 774: 533-558. doi:10.1016/j.physletb.2017.09.083. (Refereed)
16. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state." *Phys. Lett. B* 775: 1-24. doi:10.1016/j.physletb.2017.10.021. (Refereed)
17. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13$ TeV." *Phys. Lett. B* 772: 752-776. doi:10.1016/j.physletb.2017.07.047. (Refereed)
18. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Rev. D* 96 (11): 112003. doi:10.1103/PhysRevD.96.112003. (Refereed)
19. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions." *Eur. Phys. J. C* 77 (7): 459. doi:10.1140/epjc/s10052-017-4984-5. (Refereed)
20. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of prompt and nonprompt J/psi production in pp and pPb collisions at $\sqrt{s[NN]} = 5.02$ TeV." *Eur. Phys. J. C* 77 (4): 269. doi:10.1140/epjc/s10052-017-4828-3. (Refereed)

21. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the B[±]-meson nuclear modification factor in PbPb collisions at $\sqrt{s[NN]} = 5.02$ TeV." *Phys. Rev. Lett.* 119 (15): 152301. doi:10.1103/PhysRevLett.119.152301. (Refereed)
22. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Rev. D* 96 (7): 072005. doi:10.1103/PhysRevD.96.072005. (Refereed)
23. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s} = 13$ TeV." *JHEP* 08: 046. doi:10.1007/JHEP08(2017)046. (Refereed)
24. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the jet mass in highly boosted t t-bar events from pp collisions at $\sqrt{s} = 8$ TeV." *Eur. Phys. J. C* 77 (7): 467. doi:10.1140/epjc/s10052-017-5030-3. (Refereed)
25. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the semileptonic t t-bar gamma production cross section in pp collisions at $\sqrt{s} = 8$ TeV." *JHEP* 10: 006. doi:10.1007/JHEP10(2017)006. (Refereed)
26. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the top quark mass in the dileptonic t t-bar decay channel using the mass observables M[bl], M[T2], and M[blnu] in pp collisions at $\sqrt{s} = 8$ TeV." *Phys. Rev. D* 96 (3): 032002. doi:10.1103/PhysRevD.96.032002. (Refereed)
27. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s} = 8$ TeV." *Eur. Phys. J. C* 77 (5): 354. doi:10.1140/epjc/s10052-017-4912-8. (Refereed)
28. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions." *Eur. Phys. J. C* 77 (11): 746. doi:10.1140/epjc/s10052-017-5286-7. (Refereed)
29. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Lett.* B774: 682-705. doi:10.1016/j.physletb.2017.10.020. (Refereed)
30. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurements of jet charge with dijet events in pp collisions at $\sqrt{s} = 8$ TeV." *JHEP* 10: 131. doi:10.1007/JHEP10(2017)131. (Refereed)
31. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV." *JHEP* 11: 047. doi:10.1007/JHEP11(2017)047. (Refereed)
32. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s[NN]} = 5.02$ TeV." *Phys. Lett.* B772: 306-329. doi:10.1016/j.physletb.2017.06.053. (Refereed)

33. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Mechanical stability of the CMS strip tracker measured with a laser alignment system." *JINST* 12 (04): P04023. doi: 10.1088/1748-0221/12/04/P04023. (Refereed)
34. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Observation of top quark production in proton-nucleus collisions." *Phys. Rev. Lett.* 119 (24): 242001. doi:10.1103/PhysRevLett.119.242001. (Refereed)
35. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Relative modification of prompt $\psi(2S)$ and J/ψ yields from pp to PbPb collisions at $\sqrt{s[NN]} = 5.02$ TeV." *Phys. Rev. Lett.* 118 (16): 162301. doi:10.1103/PhysRevLett.118.162301. (Refereed)
36. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s} = 13$ TeV." *JHEP* 09: 053. doi:10.1007/JHEP09(2017)053. (Refereed)
37. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for anomalous couplings in boosted WW/WZ to $l \nu q \bar{q}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV." *Phys. Lett. B* 772: 21-42. doi:10.1016/j.physletb.2017.06.009. (Refereed)
38. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s} = 8$ TeV." *JHEP* 07: 003. doi:10.1007/JHEP07(2017)003. (Refereed)
39. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for associated production of dark matter with a Higgs boson decaying to $b \bar{b}$ or $\gamma\gamma$ at $\sqrt{s} = 13$ TeV." *JHEP* 10: 180. doi:10.1007/JHEP10(2017)180. (Refereed)
40. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Lett. B* 774: 279-307. doi:10.1016/j.physletb.2017.09.053. (Refereed)
41. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for charged Higgs bosons produced in vector boson fusion processes and decaying into a pair of W and Z bosons using proton-proton collisions at $\sqrt{s} = 13$ TeV." *Phys. Rev. Lett.* 119 (14): 141802. doi:10.1103/PhysRevLett.119.141802. (Refereed)
42. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV." *JHEP* 03: 061. doi:10.1007/JHEP01(2018)056, 10.1007/JHEP09(2017)106, 10.1007/JHEP03(2017)061. (Refereed)
43. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV." *JHEP* 07: 014. doi:10.1007/JHEP07(2017)014. (Refereed)
44. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models." *Phys. Lett. B* 769: 520-542. doi:10.1016/j.physletb.2017.09.029, 10.1016/j.physletb.2017.02.012. (Refereed)
45. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV." *JHEP* 10: 005. doi:10.1007/JHEP10(2017)005. (Refereed)

46. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states." *JHEP* 04: 136. doi:10.1007/JHEP04(2017)136. (Refereed)
47. CMS, Albert M Sirunyan, and Daniel Tapia Takaki, et al. 2017. "Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s} = 13$ TeV." *JHEP* 11: 029. doi:10.1007/JHEP11(2017)029. (Refereed)
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Minor Publications or Creative Works

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128. Takaki, JD Tapia, Alejandro Ayala, Eleazar Cuautle, Peter Otto Hess, and Guy Paic. 2011. "Inclusive J/ψ production in proton-proton interactions at $\sqrt{s} = 7$ TeV with ALICE at LHC!!!" In Vol. 1348, *AIP Conference Proceedings*. 105–110. 1st ed.
129. Tapia-Takaki, D. 2011. "J/psi production in p+ p collisions at ALICE." In *International conference on Strangeness in Quark Matter*.
130. Tapia-Takaki, D. 2011. "Photo-production of vector mesons in 2.76 TeV ultra-peripheral Pb+ Pb collisions at ALICE." In *Rencontres du Viet Nam, 14th Workshop on Elastic and Diffractive Scattering (EDS Blois Workshop)*.
131. Aamodt, K, B Abelev, Quintana, A Abrahantes, D Adamova, AM Adare, MM Aggarwal, G Aglieri Rinella, AG Agocs, S Aguilar Salazar, Z Ahammed, and others. 2010. "Charged-particle multiplicity density at Midrapidity in central Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV." *Physical review letters* (American Physical Society) 105 (25): 252301.
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A: Accelerators, Spectrometers, Detectors and Associated Equipment (North-Holland) 615 (1): 6–13.

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Works Submitted or Ready for Submission

1. Tapia Takaki, Daniel. 2016. "LHC Forward Physics," review of *LHC Forward Physics*. K. Akiba et al. *J.Phys. G43 (2016) 110201*. *J. Phys. G43 (2016) 110201*. (Refereed, Invited)
2. Adam, J., Daniel Tapia Takaki, et al. "Production of light nuclei and anti-nuclei in pp and Pb-Pb collisions at LHC energies." In review. (Refereed)
ALICE Collaboration
3. Adam, J., Daniel Tapia Takaki, et al. " ϕ -meson production at forward rapidity in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV and in pp collisions at $\sqrt{s} = 2.76$ TeV." In review. (Refereed)
ALICE Collaboration
4. Cepila, J., J. G. Contreras, and D. Tapia Takaki. "Energy dependence of dissociative J/ψ photoproduction as a signature of gluon saturation at the LHC." *Phys. Lett. B*. In review. (Refereed)

5. Khachatryan, V., Daniel Tapia Takaki, et al. "Coherent J/Ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s}[\text{NN}] = 2.76$ TeV with the CMS experiment." *Phys. Lett. B*. In review. (Refereed)
CMS Collaboration
6. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV." *Phys. Lett. B*. In review. (Refereed)
CMS Collaboration
7. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the ZZ production cross section and $Z \rightarrow \ell^+\ell^-\ell'^+\ell'^-$ branching fraction in pp collisions at $\sqrt{s} = 13$ TeV." In review. (Refereed)
CMS Collaboration
8. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the mass of the top quark in decays with a J/ψ meson in pp collisions at 8 TeV." In review. (Refereed)
CMS Collaboration
9. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the production cross section of the W boson in association with two b jets in pp collisions at $\sqrt{s} = 8$ TeV." In review. (Refereed)
CMS Collaboration
10. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the total and differential inclusive B(+) hadron cross sections in pp collisions at $\sqrt{s} = 13$ TeV." In review. (Refereed)
CMS Collaboration
11. Khachatryan, V., Daniel Tapia Takaki, et al. "Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s} = 8$ TeV using H to WW decays." In review. (Refereed)
CMS Collaboration
12. Khachatryan, V., Daniel Tapia Takaki, et al. "Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV." In review. (Refereed)
CMS Collaboration
13. Khachatryan, V., Daniel Tapia Takaki, et al. "Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets." In review. (Refereed)
CMS Collaboration
14. Khachatryan, V., Daniel Tapia Takaki, et al. "Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search." In review. (Refereed)
CMS Collaboration
15. Khachatryan, V., Daniel Tapia Takaki, et al. "Search for new physics in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at $\sqrt{s} = 8$ TeV." In review. (Refereed)
CMS Collaboration
16. Khachatryan, V., Daniel Tapia Takaki, et al. "Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV." In review. (Refereed)

CMS Collaboration

17. Tapia Takaki, J. D. 2012. "Coherent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_N N} = 2.76$ TeV." In *Diffraction 2012. AIP Conf. Proc.* In progress. (Refereed)
ALICE Collaboration

Bibliographic References to My Work

1. Tapai Takaki, Daniel. "Shining a light on lead with the LHC" In B. Jayatilaka (Ed.). <http://news.fnal.gov/2016/07/shining-light-lead-lhc/> (July 1, 2016)
2. "Producing Charm with light" *CERN Courier of October 2014*. (October 2014)
3. "Focus on Daniel Tapia Takaki" *ALICE Matters*. <http://alicematters.web.cern.ch/?q=content/node/740> (July 2014)
4. Tapia Takaki, Daniel. "LHC: the world's largest photon collider" In J. Nystrand (Ed.) *ALICE Matters*. <http://alicematters.web.cern.ch/?q=LHCphotoncollider> (March 2014)
5. "Using the LHC as a photon collider" *News on CERN Courier*. <http://cerncourier.com/cws/article/cern/51147> (November 2012)
6. "ALICE physicist features in book about Mexico". CERN Courier's Faces and Places. (May 2011)
7. Rodríguez, Margartia. "¿cómo podría Santa Claus entregar todos los regalos de Navidad?". BBC Mundo. (December 2010)

B. Scholarly Presentations/Lectures

Major Presentations/Lectures

1. Tapia Takaki, Daniel. 2016. "Ultra-peripheral collisions in heavy ions at LHC." Invited plenary talk, Diffraction: International Workshop on Diffraction in High-Energy Physics, Acireale, Sicily, Italy. September 2 - September 8. (Invited)
2. Tapia Takaki, Daniel. 2016. "The Most Energetic Photon Source Ever Built." Invited plenary talk, Opening Session: Photonuclear Physics in the Spotlight. Gordon Research Conference on Photonuclear Reactions: New trends in probing Quark-Gluon Dynamics. Holderness School, NH. August 7 - August 12. (Invited)
3. Tapia Takaki, Daniel. 2016. "Ultra-peripheral collisions in CMS." Invited plenary talk, Proton and Photon-induced nuclear collisions at the LHC, CERN, Geneva, Switzerland. July 6 - July 8. (Invited)
4. Tapia Takaki, Daniel. 2016. "Photon-induced processes at the LHC." Invited plenary talk, 14th Workshop on Non-perturbative Quantum Chromodynamics, Paris, France. June 13 - June 16. (Invited)
5. Tapia Takaki, Daniel. 2016. "Ultra-peripheral collisions at the LHC: results and perspectives." Invited plenary talk, QCD at Cosmic Energies VII: QCD Dynamics at the LHC and Super-High Energy Cosmic Rays, Chalkida, Greece. May 16 - May 20. (Invited)

6. Tapia Takaki, Daniel. 2016. "Coherent J/ψ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV and prospects at CMS for Run2." Parallel talk, 24th International Workshop on Deep-Inelastic Scattering and Related Subject, DESY, Hamburg, Germany. April 11 - April 15.
7. Tapia Takaki, Daniel. 2016. "Nuclear gluon effects in $\gamma - Pb$ collisions at the LHC." Parallel talk, 6th Asian Triangle Heavy-Ion Conference (ATHIC), International Centre, New Delhi, India. February 15 - February 19.
8. Tapia Takaki, Daniel. 2015. "México y la Física del Gran Acelerador de Hadrones, proyectos de física de altas energías y aceleradores de partículas." Invited plenary talk, LVIII Congreso Nacional de Física, Mérida, Yucatan, Mexico. October. (Invited)
9. Tapia Takaki, Daniel. 2015. "Forward physics at the LHC." Invited talk, RHIC and AGS Users Open Forum Meeting at the 2015 APS Division of Nuclear Physics, Santa Fe, NM. October 29. (Invited)
10. Tapia Takaki, Daniel. 2015. Invited plenary talk, Review on experimental heavy-ion physics at the 16th Conference on Elastic and Diffractive Scattering (EDS Blois), Borgo, Corscia. June 29 - July 4. (Invited)
11. Tapia Takaki, Daniel. 2015. "Heavy Ion Physics in AA(pA) and eA in high energies at the LHeC." Invited talk, workshop at CERN and Chavannes-de-Bogis, Switzerland. June 25 - June 26. (Invited)
12. Tapia Takaki, Daniel. 2015. "AA collisions at the LHC." Invited talk, New Directions in Nuclear Deep Inelastic Scattering in at the European Centre for Theoretical Studies in Nuclear Physics and Related Areas, Trento, Italy. June 8 - June 12. (Invited)
13. Tapia Takaki, Daniel. 2015. "Photon-nucleus collisions at the LHC." Parallel talk, 6th Workshop of the APS Topical Group on Hadronic Physics, Baltimore, MD. April 8 - April 10.
14. Tapia Takaki, Daniel. 2015. "Forward Physics with Heavy Ions at LHC." Invited talk, High Energy Nuclear Physics with Spectator Tagging workshop, Old Dominion University and Jefferson Lab. March 10. (Invited)
15. Tapia Takaki, Daniel. 2014. "Ultra-peripheral heavy-ion physics with CMS." Parallel talk, Long-range plan Joint Town Meetings on QCD, Philadelphia, PA. September 13 - September 15.
16. Tapia Takaki, Daniel. 2014. "Ultra-peripheral heavy-ion collisions with ALICE and CMS." Invited parallel talk, 37th International Conference on High Energy Physics (ICHEP), Valencia, Spain. July 5. (Invited)
17. Takaki, Daniel Tapia. 2013. "Experimental review and prospects of ultra-peripheral collisions". Invited plenary talk at the 5th International Workshop High Energy Physics in the LHC Era, Valparaiso, Chile. December 16 - December 20. (Invited)
18. Tapia Takaki, Daniel. 2013. "Photon- photon and photon-hadron collisions at LHC: an experimental review." Invited plenary talk, XIV Mexican Workshop on Particles and Fields, Oaxaca, Mexico. November 25 - November 29. (Invited)
Talk given on 26 November 2013

19. Tapia Takaki, Daniel. 2013. "ALICE results on ultra-peripheral collisions." Presentation, Strangeness in Quark Matter, Birmingham, UK. July 21 - July 27.
Talk given on 26 July 2013
20. Tapia Takaki, Daniel. 2013. "Probing low-x structure of nuclei with J/ψ production in Ultra-Peripheral Pb-Pb collisions with ALICE." Presentation, LHC France, Annecy, France. April 2 - April 6.
Talk given on 5 April 2013
21. Tapia Takaki, Daniel. 2013. "Overview of ALICE results on hard probes and upgrade plans." Invited plenary talk, LISHEP, Rio de Janeiro, Brazil. March 17 - March 23. (Invited)
22. Tapia Takaki, Daniel. 2013. "QCD Physics in pp and pA Collisions with ALICE." Invited plenary talk, QCD at Cosmic Energies - VI, QCD dynamics at the LHC and Super-high energy cosmic rays, Paris, France. March 14 - March 17. (Invited)
Talk given on 16 March 2013
23. Tapia Takaki, Daniel. 2013. "Recent results on ultra peripheral collisions at ALICE." Invited plenary talk, International Workshop on Zero degree physics, Nagoya, Japan. March 2 - March 4. (Invited)
24. Tapia Takaki, Daniel. 2012. " J/ψ measurements in ultra-peripheral Pb-Pb collisions with ALICE." Diffraction 2012: International Workshop on Diffraction in High-Energy Physics. (Invited)
25. Tapia Takaki, Daniel. 2012. "Using the LHC as a photon collider." ICN UNAM. December 13.
26. Tapia Takaki, Daniel. 2012. "Heavy-quarkonium production in UPC and diffractive reactions in pp, pA and AA collisions." First SaporeGravis day, IPN Orsay. November 23.
27. Tapia Takaki, Daniel. 2012. "Ultra peripheral collisions at ALICE." LHC Days in Split. Invited plenary talk, Split, Croatia. October 1 - October 6. (Invited)
28. Tapia Takaki, Daniel. 2012. " J/ψ photoproduction dans ALICE." Rencontres QGP-France 2012, Etretat, France. September 25 - September 28.
29. Tapia Takaki, Daniel. 2012. "Photoproduction of J/ψ in ultra-peripheral Pb+Pb collisions at ALICE." 6th International Conference on Quarks and Nuclear Physics: 40 years of development of Quantum Chromodynamics, Palaiseau, France. April 16 - April 20.
30. Tapia Takaki, Daniel. 2011. "ALICE Diffractive: Physics motivations." Workshop on the Future of ALICE, Parallel Sessions, Geneva, Switzerland.
31. Tapia Takaki, Daniel. 2011. "Diffractive and photon-induced physics at ALICE." IPN Orsay, Université Paris-sud.
32. Tapia Takaki, Daniel. 2011. "Experimental review on quarkonia production in heavy-ion collisions at LHC energies." XIII Mexican Workshop on Particles and Fields, Leon, Mexico. (Invited)
33. Tapia Takaki, Daniel. 2011. " J/ψ production in p+p collisions at ALICE." International conference on Strangeness in Quark Matter, Parallel Sessions, Krakow, Poland.

34. Tapia Takaki, Daniel. 2011. "Photo-production of vector mesons in 2.76 TeV ultra-peripheral Pb+Pb collisions at ALICE." 14th Workshop on Elastic and Diffractive Scattering (EDS Blois), Rencontres du Vietnam, Qui Nhon, Vietnam.
35. Tapia Takaki, Daniel. 2011. "Photoproduction of vector mesons at ALICE." SPhN, Saclay CEA.
36. Tapia Takaki, Daniel. 2011. "Quarkonia production at ALICE." 49th International school of subnuclear physics, Erice, Italy. (Invited)
37. Tapia Takaki, Daniel. 2011. "Quarkonia production at ALICE." LLR, Ecole polytechnique.
38. Tapia Takaki, Daniel. 2010. "Central and forward inclusive J/ψ production in p+p collisions at ALICE." The University of Birmingham.
39. Tapia Takaki, Daniel. 2010. "Inclusive J/ψ production: first results in p+p collisions at $\sqrt{s} = 7$ TeV at ALICE." International High p_T physics at the LHC workshop, Parallel Sessions, México City, Mexico.
40. Tapia Takaki, Daniel. 2010. "LVDS tester: a systematic test of cable signal transmission at the ALICE experiment." Topical Workshop on Electronics for Particle Physics (TWEPP), Aachen, Germany.
41. Tapia Takaki, Daniel. 2010. "New forward detectors at ALICE." Forward Physics at the LHC workshop, Parallel Sessions, Manchester, UK.
42. Tapia Takaki, Daniel. 2010. "Quarkonia production at LHC energies." BUAP Puebla.
43. Tapia Takaki, Daniel. 2010. "Quarkonia production at LHC energies." Universidad de Sonora.
44. Tapia Takaki, Daniel. 2009. "Highlights of the SQM conference 2009." LPC Clermont-Ferrand.
45. Tapia Takaki, Daniel. 2009. "Strange resonances and quarkonia at ALICE." IPHC Strasbourg.
46. Tapia Takaki, Daniel. 2009. "The Color Glass Condensate framework in p+p and p+A interactions at ALICE." International Conference on Strangeness in Quark Matter, Parallel Sessions, Buzios, Brazil.
47. Tapia Takaki, Daniel. 2009. "The flavours of hot QCD matter." IPN Lyon.
48. Tapia Takaki, Daniel. 2009. "The flavours of hot QCD matter." SUBATECH, Nantes.
49. Tapia Takaki, Daniel. 2008. "ALICE Soft-Physics Programme." Annual Meeting of the Mexican Division on Particles and Fields, IPN Institute, México City, Mexico. (Invited)
50. Tapia Takaki, Daniel. 2008. "ALICE physics programme." Universidad de Sonora.
51. Tapia Takaki, Daniel. 2008. "Physics performance studies at ALICE." QGP France meeting, Parallel Sessions, Étretat, France.
52. Tapia Takaki, Daniel. 2007. "Physics Performance studies for the ALICE experiment at the CERN LHC." The University of Birmingham.

53. Tapia Takaki, Daniel. 2007. "Poster." Birmingham Graduate School Conference, Birmingham, UK.
54. Tapia Takaki, Daniel. 2007. "Prospects in ALICE for $\phi(1020)$ production." International Conference on Strangeness in Quark Matter, Parallel Sessions, Levoča, Slovakia.
55. Tapia Takaki, Daniel. 2007. "The ALICE experiment at the CERN LHC." Johannes Gutenberg University Mainz.
56. Tapia Takaki, Daniel. 2007. "Resonance production at ALICE in proton-proton collisions." IoP Nuclear and Particle Physics Divisional Conference, University of Surrey, Parallel Sessions, Guildford, UK. April 2 - April 5.
57. Tapia Takaki, Daniel. 2006. "Poster." Birmingham Graduate School Conference, Birmingham, UK.
58. Tapia Takaki, Daniel. 2006. "Poster." IoP High Energy Physics Conference, Warwick, UK.
59. Tapia Takaki, Daniel. 2005. "Poster." IoP High Energy Physics Conference, Dublin, Ireland.
60. Tapia Takaki, Daniel. 2005. "Poster." RAL summer school, the Cosener's House, Abingdon, UK.

Minor Presentations/Lectures

1. Tapia Takaki, Daniel. 2016. "Ultra-peripheral collisions at the LHC." XVII Mexican School of Particles and Fields, San Cristobal de las Casas, Chiapas, Mexico. November 25. (Invited)
2. Tapia Takaki, Daniel. 2016. "High energy nuclear physics research." SACNAS: The National Diversity in STEM conference, Long Beach, California. October 13 - October 15. (Invited)
3. Tapia Takaki, Daniel. 2016. "Seminar: "Photon-induced physics at the LHC in the Spotlight"." UNAM ICN, Mexico City, Mexico. August 30. (Invited)
4. Tapia Takaki, Daniel. 2016. "Seminar: "Nuclear gluon effects in gamma+Pb collisions at the LHC"." Nuclear Physics seminar
Stony Brook University, Stony Brook, Long Island, USA. April 28. (Invited)
5. Tapia Takaki, Daniel. 2016. "Multidisciplinary and large international projects at CERN." APS April meeting
Session E7: The scales of collaboration. Physics as a Cooperative Effort, Salt Lake City, Utah. April 16. (Invited)
6. Tapia Takaki, Daniel. 2016. "Seminar: "Nuclear gluon effects in gamma+Pb collisions at the LHC"." Nuclear Physics Seminar
Rice University, Houston, Texas, USA. March 10. (Invited)

C. Grants and/or Other Funded Projects

External Funding

Funded Proposals

University of Kansas

1. Tapia Takaki, Daniel (Co-Principal), Stephen Sanders (Principal), and Michael Murray (Co-Principal). "Research in Heavy-Ion Nuclear Physics at CMS." US Dept of Energy \$1,320,000, Submitted April 18, 2017 (June 1, 2017 - May 31, 2020). (Refereed/Competitive)

Current Status: Funded

2. Tapia Takaki, Daniel (Principal). "INT Workshop INT-17-65W: "Probing QCD in Photon-Nucleus Interactions at RHIC and LHC: the Path to EIC". Institute of Nuclear Theory, University of Washington, Seattle. February 13 - 17, 2017 <http://www.int.washington.edu/PROGRAMS/17-65w/>." Institute of Nuclear Theory \$28,000, Submitted August 2016.

Current Status: Funded

3. Tapia Takaki, J. (Principal). "Research in Heavy-Ion Physics at CMS." US Dept of Energy \$120,000, Submitted March 2, 2016 (June 1, 2016 - May 31, 2017). (Refereed/Competitive)

Current Status: Funded

4. Tapia Takaki, Jesus Daniel (Principal). "Using the LHC as a photon-nucleus collider." DE-FG02-96ER40981, US Department of Energy \$120,000 (June 1, 2015 - May 31, 2016). (Refereed/Competitive)

Current Status: Funded

Internal Funding

University of Kansas

Internal Award

1. Tapia Takaki, Daniel (Principal). "Teaching Physics and Astronomy to Minorities: 1-day workshop." \$5,000. (Refereed/Competitive)

Current Status: Not Funded

D. Patents

Approved Patents

Submitted Patents

Only Approved Patents that are public should be listed in PRO. If you need to list Submitted Patents on this form, please do so here and erase these instructions.

E. Honors and Awards for Research

Nominee, 2017 Cottrell Scholar Award. (Fall 2016)

Nominee, 2016 Guido Altarelli Award. (April 2016)

KU CLAS Travel Award for Faculty. (2014)

Richard H. Dalitz diploma, International school of subnuclear physics. (2011)

Victor F. Weisskopf diploma, International school of subnuclear physics. (2009)

Courses Taken

AAPT New Faculty Workshop, AAPT, November 7, 2013 - November 10, 2013

50th International School of Subnuclear Physics: "What we would like LHC to give us", Erice, Sicily, 2012

49th International School of Subnuclear Physics: "Searching for the unexpected at LHC and status of our knowledge", Erice, Sicily, 2011

47th International School of Subnuclear Physics: "The most unexpected at LHC and status of high energy frontier", Erice, Sicily, 2009

CTEQ Summer School on QCD Analysis and Phenomenology, Rhodes, Greece, 2006

YETI courses: Monte Carlo for the Standard Model, Durham, England, 2006

UK Gradschool, University of Stirling, Scotland, June 12, 2006 - June 17, 2006

IoP Meeting on Statistics in HEP, Manchester, England, 2005

Italo-Hellenic LHC Physics School, Lecce, Italy, 2005

RAL Summer School, Abingdon, England, 2005

Mexican School on Particle and Fields, Xalapa, Mexico, 2004

Mexican School on Nuclear Physics, UNAM, Mexico City, Mexico, 2003

Service Record

A. University of Kansas Service

Department/Unit Service

Physics & Astronomy

Alumni Fundraising. Faculty Liaison and Chair. (Fall 2016 - Present)

Department Colloquium Committee. Chair. (May 2015 - Present)

Faculty Evaluation Committee. Member. (Fall 2014 - Present)

Graduate student recruiting. Student Recruiter. I represented the Department at the 2016 SACNAS - The National Diversity in STEM Conference and participating in the recruiting process. (October 2016)

Responsible of preparing/submitting a proposal to recruit a faculty in the Langston Hughes Visiting Professorship program. Submitter. (Spring 2016)

Public Talk at KU "The Big Bang in the Laboratory" by Professor Paolo Giubellino from CERN/INFN Torino. Organizer. (November 21, 2015)

Graduate Students Evaluation Committee. Member. (Fall 2014 - Summer 2015)

Ad-hoc Recruitment Committee for Dr. Christophe Royon, Foundation Distinguished Professor. Member. (May 2015)

Promotion & Tenure Committee for Dr. Christophe Royon, Foundation Distinguished Professor. Member. In charge of writing a Departmental letter of support that addresses the teaching, research, and service qualifications of the candidate to be appointed as a full professor in the Department. (May 2015)

Colloquium Committee. Member. (Spring 2015)

Talk: From the Smallest to the Biggest: How Our Inward Search Sheds Light on the Earliest Moments of the Universe given by Dr. Paul Sorensen, Public Talk in downtown Lawrence, Kansas. Organizer. (September 4, 2014)

School/College Service

College Committee on Sabbatical Leave (CSL). Member. (August 2014 - May 2017)

University Service

Latino Faculty and Staff Council (LFSC). Treasurer. (Fall 2015 - Summer 2016)

Special Guest Lecture by Dr. John A Haines from UNITAR at the Kansas Union. Organizer. (Fall 2015)

Hiring of Dr. Christophe Royon, Foundation Distinguished Professor. Initiator and Coordinator. (Spring 2015)

Fulbright Visiting Scholar lecture by Prof. Anju Bashin from Jammu University. Organizer. One talk at KU and another at Haskell Indian Nations University. (Spring 2015)

Red Hot Research talk at The Commons. (April 17, 2015)

Art+Science: Collaborative research at the University of Kansas. Participant. Participated with a small exhibit at the library exhibition at the Watson Library. (Fall 2014)

Research round table Excavating the Universe: Physics Interacts with the Arts, The Commons. Organizer. Together with the Spencer Museum of Art. (November 21, 2014)

Science-Art research collaboration between the Spencer Museum of Art, CERN and ART for the World Foundation. Initiator. (Summer 2014)

Annual Graduate Research Competition. Judge. (March 2014)

B. Professional Service outside the University

International

Coherent J/ψ photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, Editorial Committee of the ALICE publication, Editorial Board Member. arXiv:1209.3715. Accepted by Phys.Lett.B.

Charmonium photoproduction at midrapidity in ultra-peripheral Pb-Pb collisions $\sqrt{s_{NN}} = 2.76$ TeV, Editorial Committee of the ALICE publication, in preparation, Editorial Board Member.

CMS Physics Interest Group on forward heavy-ion physics and the contact person for luminosity within the CMS Heavy-Ion Physics Analysis Group, Convener, Geneva, Switzerland. (January 2015 - Present)

Research projects referee at Pontificia Universidad Católica del Perú, Referee, Perú. (2011 - Present)

Organizing committee for the Workshop on Forward Physics and High Energy Scattering at Zero Degrees. Nagoya, Japan. September 9-12, 2015., Organizer, Nagoya, Japan. (September 9, 2015 - September 12, 2015)

ALICE Physics Analysis Group: ultra-peripheral heavy-ion collisions, Convener. This physics analysis group is formed by about 20 people from different countries, two years position. (January 2012 - October 2014)

Future directions on heavy-ion physics in the forward region & LHC Working Group on Forward Physics and Diffraction., Organizer, Lawrence, KS, USA. (September 3, 2014 - September 6, 2014)

Central Trigger Processor of the ALICE experiment, On-Call Expert. (2008 - 2013)

ALICE Physics Week (110 participants), Co-Chair, Puebla, Mexico. (November 27, 2012 - December 2, 2012)

Rapidity and transverse momentum dependence of inclusive J/ψ production in pp collisions at $\sqrt{s} = 7 \text{ TeV}$, Editorial Committee of the ALICE publication, Editorial Board Member. Phys.Lett.B704:442-455,2011. (2011)

Represented Mexico at the 10th ICFA Seminar on Future Perspectives in High-Energy Physics 2011, CERN, Representative, Geneva, Switzerland. Invited by the CERN Director-General and the SMF-DPYC. (2011)

Paper Preparation Group: J/ψ in p+p collisions with the ALICE muon spectrometer, Deputy Convener. (2009 - 2010)

Rencontres Ions Lourds, Organizer, Paris, France. 6 months. (2009 - 2010)

BRIL (Beam Radiation Instrumentation and Luminosity) project within the CMS Collaboration at CERN, Chair, Switzerland. (Spring 2016 - Present)

Probing QCD in photon-nucleus interactions at RHIC and LHC: the path to EIC, Institute of Nuclear Theory (INT) workshop, Organizer, Seattle, WA. (February 12, 2017 - February 17, 2017)

CMS Publication: "Relative modification of prompt $\psi(2S)$ and J/ψ yields from pp to PbPb collisions at $\sqrt{s[NN]} = 5.02 \text{ TeV}$ " Submitted to publication to Physical Review Letters., Reviewer. (Summer 2016)

Workshop on Forward Physics and High-Energy Scattering at Zero Degree (HESZ 2015), Heavy-ion physics convener, Convener, Nagoya, Japan. (September 2015)

Excavating the Universe: Physics Interacts with the Arts", On Nov 21 2014, we hosted a one-day event that included a research roundtable and a public talk. Both events were held at the Commons, and the event was broadcasted live on youtube. The research roundtable title was "Excavating the Universe: Physics Interacts with the Arts". This events was sponsored by the Spencer Museum of Art and the Department of Physics and Astronomy. This roundtable brought together artists and physicists to talk about the ways their work is stimulated and inspired by the other discipline. Distinguished panelists included experimental physics Paolo Giubellino, spokesperson of the ALICE experiment at CERN; physics and filmmaker Agnes Mocsy from the Pratt Institute; Ariane Koek, director of Arts@CERN, and artists Marissa Benedict, who works with the Art, Science and Culture initiative at the University of Chicago., Organizer, Lawrence, KS, 2014. (November 21, 2014)

Public Talk: "the Big Bang in the Laboratory" by Dr. Paolo Giubellino from CERN/INFN Torino, who is the Spokesman of the ALICE Collaboration at CERN. Dr. Giubellino's talk was highly attended. The event took place at the Commons, and was sponsored by the Department of Physics and Astronomy. The event was broadcasted live on youtube., Organizer, Lawrence, KS, USA. https://www.youtube.com/watch?v=cfYF0rxmNCU&list=UUU9vIT_jooBnTAcnEvxftaQ. (November 21, 2014)

Professional Memberships/Honor Societies

American Association of Physics Teachers, (2013 - Present)

American Physical Society, (2013 - Present)

National Society of Hispanic Physicists, (2013 - Present)

Sistema Nacional de Investigadores (Level 1), Mexico, (2012 - Present)

French research network: GDR-PH-QCD, (2011 - Present)

Mexican research network: CONACYT-FAE, (2011 - Present)

Institute of Physics, UK, (2006 - Present)

European research network: ReteQuarkonii, In the context of I3 Hadron Physics 2, (2009 - 2011)

C. Honors and Awards for Service

Travel scholarship to attend the NSF CAREER Writing Workshop. (March 2014)

Premio Sonorense de la Juventud, Sonora, Mexico. (2008)

Popular choice poster prize, Birmingham University Graduate School Conference. (2007)

Moreton Travel Award, Birmingham University. (2006 - 2007)

Alban scholarship award for Latin Americans, European Union programme. (2004 - 2007)
Overseas Research Award (ORS), United Kingdom. (2004 - 2007)
Award-winning poster, Annual HEPP Conference, Institute of Physics (IoP). (2006)
Valor Universitario, Universidad de Sonora. (2004)
CONACYT scholarship for Master studies. (2003)
Summer internship scholarship, two times awarded, Mexican Academy of Science. (2002 - 2003)
First prize in Physics, Chemistry and Maths, Contest organised by the Sonora's institutes of
technology. (1999)
Best student of the generation, Formal schooling: COBACH Reforma. (1996 - 1999)

INGRESO COMO PROFESOR-INVESTIGADOR EXTRAORDINARIO DEL DR. DANIEL TAPIA TAKAKI A LA UNIVERSIDAD DE SONORA

ANTECEDENTES

Uno de los programas estratégicos del Programa de Desarrollo Institucional de la Universidad de Sonora para el periodo 2017-2021 contempla la internacionalización de los programas académicos y de investigación de la Universidad de Sonora. Desde el verano de 2017, se ha desarrollado la iniciativa "Programa Académico de Posgrado en Física Teórica y Experimental en Altas Energías" dentro del Posgrado en Ciencias (Física) que ha resultado en la creación de un grupo experimental de altas energías en la Universidad de Sonora, y en particular en la contratación de cuatro profesores-investigadores de tiempo completo como investigadores de la colaboración CMS del CERN, en Ginebra, Suiza. Después de una serie de gestiones y un proceso de revisión técnica y científica que contempla varias etapas, la propuesta de la Universidad de Sonora para ser miembro del CERN ha sido aceptada y desde el 9 de febrero de 2018 la institución es miembro completo del proyecto CMS y cuenta ahora una afiliación formal con el CERN. El 19 y 20 de febrero de 2018, una delegación de la Universidad de Sonora incluyendo al Dr. Enrique Velázquez Contreras visito las instalaciones del CERN y se firmaron los convenios de colaboración con la colaboración CMS, abriendo las puertas de la institución no solo a la investigación en física de altas energías sino también a aplicaciones bio medicas, el área de ingenierías, computo en la nube, "Big Data", y aceleradores de partículas. Este recurso humano de cuatro profesores cuenta con el perfil científico y académico necesario de alto nivel que ha permitido al Posgrado en Ciencias (Física) diseñar y publicitar una oferta del mismo posgrado llamada "International Graduate Program in High Energy Physics", la cual iniciará en el semestre 2018-2. Al mismo tiempo, a partir de semestre 2018-2 se tendrá la primera generación de estudiantes en el programa de doctorado doble con la Universidad de Kansas. Todos estos proyectos son consistentes con los objetivos descritos en la iniciativa "Programa Académico de Posgrado en Física Teórica y Experimental en Altas Energías" y con el Programa de Desarrollo Institucional.

El Dr. Daniel Tapia Takaki ha contribuido en el diseño, creación, gestión y coordinación de todos los proyectos descritos, y dado que el siguiente paso es consolidar dichos proyectos y desarrollar las nuevas oportunidad que dichos proyectos van a originar para la institución, es importante en estos momentos garantizar un esquema que permita que el Dr. Tapia Takaki tenga una afiliación de profesor-investigador en la Universidad de Sonora y que sea consistente con las tareas específicas descritas en este documento, y con sus méritos y trayectoria académica, que incluye una amplia labor en el desarrollo de grupos de trabajo científico de muy alto nivel tanto en instituciones a nivel nacional e internacional. Por estas razones, el Departamento de Investigación en Física (DIFUS) de la Universidad de Sonora, quien alberga el Posgrado en Ciencias (Física) de la División de Ciencias Exactas y Naturales, solicita el ingreso del Dr. Daniel Tapia Takaki como profesor-investigador extraordinario, en los términos que se describen en el presente documento y conforme al Estatuto de Personal Académico de la Institución.

MERITOS ACADÉMICOS Y CIENTÍFICOS

El Dr. Tapia Takaki es investigador en física de altas energías, y profesor-investigador en la Universidad de Kansas, EE.UU; obtuvo su doctorado en física por la University of Birmingham, en Inglaterra en 2008, y ha trabajado para las colaboraciones científicas internacionales de los proyectos ALICE y CMS del CERN, iniciando sus trabajos en el año 2002, y obtuvo la membresía con CERN a partir de 2004. El Dr. Tapia Takaki ha trabajado como investigador del servicio público francés dentro del sistema CNRS en el Instituto de Física Nuclear de Orsay de la Université de Paris-sud por un periodo de cinco años de 2008 a 2013, y desde verano de 2013 es profesor-investigador en la Universidad de Kansas donde ha creado un grupo de investigación en la física de iones pesados ultra-relativistas.

El Dr. Tapia Takaki se ha especializado en la física de iones pesados ultra-relativistas, en las que es posible crear un estado de la materia conocido como el Plasma de Quark y Gluones, que la teoría indica debió existir en los primeros micro segundos después del Big Bang. En los años recientes su investigación se ha enfocado en estudiar las colisiones de iones pesados en el gran acelerador de partículas del CERN (LHC, por sus siglas en inglés), donde se generan campos electromagnéticos muy intensos, para analizar interacciones inducidas por luz, tales como interacciones fotón-fotón, fotón-protón o fotón-núcleo. En dichas interacciones es posible estudiar la estructura hadrónica del protón o del núcleo para estudiar fenómenos físicos que han sido predichos por la teoría de interacciones fuertes (QCD, por sus siglas en inglés), tales como la saturación de gluones, pero que hasta la fecha no han podido ser confirmadas experimentalmente. La observación de dichos fenómenos, arrojan un mejor entendimiento de la física fundamental, y en particular sobre como los gluones y sus interacciones entre ellas pueden formar estados de la materia en condiciones extremas, tales como las que se forman en colisiones de iones pesados ultra-relativistas. Al mismo tiempo, las interacciones de fotón-fotón pueden permitir la búsqueda de nuevos estados que han sido predichos por la teoría, tales como axiones que son actualmente candidatos para explicar la materia oscura. Al mismo tiempo, los experimentos realizados por el Dr. Tapia Takaki están conectados con el diseño y motivación física del proyecto para un acelerador electrón – ion que planea construirse en los Estados Unidos en los próximos años.

El Dr. Tapia Takaki ha publicado 338 artículos en revistas de investigación de prestigio como Nature y Physical Review Letters, contando con un índice h de 71 y tiene trabajos publicados de los cuales uno de ellos registra más de 1000 citas.

En la generación de recursos humanos, ha graduado hasta la fecha un estudiante de doctorado, uno de maestría y tres estudiantes de licenciatura, y se encuentra supervisando el trabajo de tres estudiantes de nivel de doctorado en este momento. Al mismo tiempo, el Dr. Tapia Takaki ha sido coordinador de varios proyectos de investigación en el CERN, y ha tenido bajo su supervisión grupos de trabajo de hasta 25 físicos, que incluyen estudiantes e investigadores. Tanto en los proyectos ALICE y CMS, ha sido iniciador de proyectos de detectores tales como el proyecto AD, y ha sido desarrollador de sistemas de

disparo de alta velocidad en el proyecto ALICE, ha investigado sistemas de monitoreo de luminosidad tanto en ALICE como CMS.

Ha sido miembro de comités de evaluación en CONACyT y NSF, y miembro del panel nacional de proyectos de investigación para la física nuclear de NSF, y miembro de paneles en CERN, la Universidad de Kansas y la Pontificia Universidad Católica del Perú. Ha sido organizador de conferencias internacionales y coordinación de secciones de investigación científica, y miembro de comités científicos internacionales de conferencias. El Dr. Tapia Takaki también ha sido miembro de comités de revisión de artículos de investigación en revistas de prestigio como en Physical Review Letters.

El Dr. Tapia Takaki ha obtenido proyectos competitivos de investigación del Departamento de Energía de los EE.UU., y hasta la fecha ha obtenido proyectos de financiamiento externo a la Universidad de Kansas con un monto superior a los 1.6 millones de dólares, y ha sido responsable directo de gestiones en la Universidad de Kansas para la contratación de personal que ha resultado en 2 millones de dólares adicionales al Departamento de Física y Astronomía.

VÍNCULOS ACADÉMICOS Y CIENTÍFICOS CON LA INSTITUCIÓN

El Dr. Daniel Tapia Takaki, es profesor-investigador en la Universidad de Kansas, EE.UU., quien tiene una colaboración académica y de investigación muy cercana con la Universidad de Sonora desde hace varios años. Además de ser un egresado de la Universidad de Sonora en los programas de Licenciatura en Física y de la Maestría en Ciencias (Física), recientemente el Dr. Tapia Takaki ha contribuido en la creación, diseño, gestión y coordinación de los siguientes programas, planes y proyectos:

- Proponente, junto con investigadores del DIFUS, del “programa académico de posgrado en Física Teórica y Experimental en Altas Energías”, propuesto el 5 de julio de 2017 a la Comisión del Posgrado en Ciencias (Física).
- Apoyo en el reclutamiento y la evaluación académica y productividad científica de los candidatos a profesores-investigadores, realizado en el verano de 2017, concluida en el semestre 2017-2 con la contratación de cuatro profesores-investigadores.
- Gestión del “Acuerdo de Cooperación Cultural, Educativa y Científica entre la Universidad de Sonora y The University of Kansas”, firmado por el Dr. Enrique Velázquez Contreras y el Dr. Douglas Girod, el 9 de noviembre de 2017, en Lawrence, Kansas, EE.UU.
- Diseño del programa de titulación doble con la Universidad de Kansas y del programa de doctorado en física de la Universidad de Sonora que iniciará en el semestre 2018-2. Concluida en el semestre 2017-2 con un estudiante que se encuentra ya aceptado por la Universidad de Kansas y tiene el visto bueno del Posgrado en Ciencias (Física) del DIFUS.
- Diseño del “International Program in High Energy Physics” del Posgrado en Ciencias (Física) de la Universidad de Sonora que iniciará en el semestre 2018-2; habiendo concluido en el Semestre 2017-2 con el diseño curricular del programa internacional en física de altas energía, el perfil de

profesor-investigador del programa, selección de profesores y cursos para el programa que inicia en el semestre 2018-2.

- Diseño y publicación de la Convocatoria internacional de nuevo ingreso del International Program in High Energy Physics en los sitios de concentración de información académica y científica en física de altas energías.
- Diseño, gestión y coordinación la propuesta para la adscripción de la Universidad de Sonora en la colaboración científica internacional CMS del CERN, en Ginebra, Suiza. Desde el 9 de febrero de 2018, la Universidad de Sonora es miembro completo del proyecto CMS.
- Gestión con el CONACYT para obtener un acuerdo de colaboración en el CERN, CONACyT y la Universidad de Sonora para el apoyo en las mismas condiciones que las instituciones de educación superior del país que colaboran en proyectos con CERN. El acuerdo se entre la colaboración CMS y la Universidad de Sonora fue firmado el 20 de febrero por el Dr. Joel Butler, portavoz de la colaboración CMS y por el Dr. Enrique Velázquez Contreras, Rector de la UNISON.
- Coordinación del programa de estancias de intercambio de estudiantes del Posgrado en Ciencias (Física), Ciencias de Materiales y de Nanotecnología de la Universidad de Sonora con la Universidad de Kansas. En el semestre 2018-1 se ha concretado la visita de un estudiante de maestría del Posgrado en Ciencias de Materiales de la Universidad de Sonora que actualmente se encuentra en el laboratorio de la Dr. Judy Wu de la Universidad de Kansas por un periodo de seis meses.
- Diseño de proyectos de investigación científica a cargo de los profesores-investigadores adscritos al programa de posgrado internacional, así como también los proyectos de investigación para elaboración de tesis de posgrado adecuados para los estudiantes del posgrado.
- Apoyo en la preparación de las propuestas de proyectos CONACYT de Infraestructura, laboratorios nacionales, estancias posdoctorales en la UNISON, ciencia básica y problemas nacionales.
- Apoyo en el Departamento de Ingeniería Industrial y de Sistemas de la División de Ingenierías de la Universidad de Sonora para la creación de un grupo de investigación en computo en la nube, Big Data, conectado con el CERN. Actualmente se encuentra el proceso de búsqueda de candidatos para conformar dicho grupo.
- Gestión en la firma del acuerdo de entendimiento y colaboración entre la Universidad de Sonora y la Universidad de Catania, la Escuela Superior de Catania y el Laboratorio Nacional del Sur, en Catania.

PROCEDIMIENTO Y CARÁCTER DE LA CONTRATACION

El procedimiento para la inscripción de profesor-investigador extraordinario se encuentra descrito en el Estatuto de Personal Académico (EPA). La figura de profesor-investigador extraordinario es quien, en virtud de haber realizado una obra académica creativa de reconocido mérito, ingrese a la Universidad de Sonora, o bien, sea distinguido con este reconocimiento, y deberá de ser de tiempo completo. La contratación de un profesor-investigador extraordinario puede ser de carácter permanente o temporal, y en el caso de una contratación temporal esta puede ser por tiempo u obra determinada y podrá prorrogarse cuantas veces sea necesario, en las modalidades que el Colegio Académico considere convenientes.

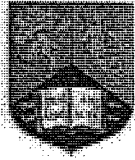
La propuesta de ingreso del Dr. Tapia Takaki como profesor-investigador extraordinario a la Universidad de Sonora esta justificada en los términos descritos en la presente propuesta para apoyar en el cumplimiento de los planes y los fines descritos en el nuevo Programa de Desarrollo Institucional 2017-2021 que contempla como parte de los programas estratégicos la internacionalización de los programas académicos y de investigación de la Universidad de Sonora; llevando acabo y coordinando los programas de investigación, docencia e investigación que se describen en el presente documento, y con el fin de cumplir con los compromisos recientemente obtenidos por la Universidad de Sonora con el CERN y la colaboración CMS. Debido a la naturaleza de estos planes y proyectos de alto alcance e impacto para la institución, se propone que la contratación del Dr. Tapia Takaki sea de carácter indeterminado, y para cumplir con la normativa descrita en el Estatuto de Personal Académico para profesores-investigadores extraordinarios el Dr. Tapia Takaki estará requerido que sus funciones sean de carácter de tiempo completo durante su presencia física en la Universidad de Sonora.

LISTA DE TAREAS ESPECIFICAS A DESEMPEÑAR

El Dr. Daniel Tapia Takaki realizará las siguientes tareas y actuará en los siguientes roles y funciones:

- Realizar investigación en física altas energías o en áreas interdisciplinarias y de innovación como en física médica, coordinando las actividades del grupo de altas energías.
- Docencia de cursos especializados en física de altas energías o en áreas interdisciplinarias y de innovación conectadas con esta disciplina como en física médica.
- Supervisión, dirección o co-dirección de investigaciones encaminadas a la elaboración de tesis de licenciatura y posgrado de estudiantes inscritos en la UNISON.
Coordinador del Programa Internacional de Física de Altas Energías de la UNISON.
- Coordinador de la Programa de doble titulación dentro de los programas de posgrado de la Universidad de Sonora, vinculados con la Universidad de Kansas y proyectos internacionales con el CERN, la Universidad de Catania y otros proyectos internacionales que se desarrollen en el futuro.

- Supervisión de las propuestas de proyectos de investigación internacional vinculadas con proyectos con el CERN.
- Realizar las gestiones para la creación de una unidad académica y de investigación de la Universidad de Sonora en los Estados Unidos, en una primera fase con la Universidad de Arizona. Al mismo tiempo, realizar gestiones para la creación unidades o centros de investigación de instituciones de los Estados Unidos en la Universidad de Sonora, en una primera fase con la Universidad de Arizona. En algunos casos se contempla colaboración con la UNAM.



UNIVERSITY OF
BIRMINGHAM

It is hereby certified that

Jesus Daniel Tapia Takaki

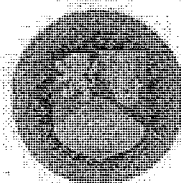
was admitted to the Degree of

Doctor of Philosophy

on the fifteenth day of July 2008

VICE-CHANCELLOR AND PRINCIPAL

ACTING REGISTRAR AND SECRETARY



636477

University of Birmingham, Edgbaston, Birmingham, B15 2TT, United Kingdom

Hermosillo, Sonora, a 14 de marzo de 2018

Dr. Martín Rafael Pedroza Montero
Jefe del Departamento de Investigación
en Física de la Universidad de Sonora
P r e s e n t e.-

Por medio de la presente me dirijo a su amable atención para solicitar su apoyo para gestionar la contratación ante el Consejo Divisional del Dr. Daniel Tapia Takaki. El cual estará adscrito al Departamento de Investigación en Física de la Universidad de Sonora como Profesor-Investigador Extraordinario.

El Dr. Tapia Takaki es investigador en física de altas energías, y profesor-investigador en la Universidad de Kansas, EE.UU; obtuvo su doctorado en física por la University of Birmingham, en Inglaterra en 2008, y ha trabajado para las colaboraciones científicas internacionales de los proyectos ALICE y CMS del CERN, iniciando sus trabajos en el año 2002, y obtuvo la membresía con CERN a partir de 2004. El Dr. Tapia Takaki ha trabajado como investigador del servicio público francés dentro del sistema CNRS en el Instituto de Física Nuclear de Orsay de la Université de Paris-sud por un periodo de cinco años de 2008 a 2013, y desde verano de 2013 es profesor-investigador en la Universidad de Kansas donde ha creado un grupo de investigación en la física de iones pesados ultra-relativistas.

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Ha sido miembro de comités de evaluación en CONACyT y NSF, y miembro del panel nacional de proyectos de investigación para la física nuclear de NSF, y miembro de paneles en CERN, la Universidad de Kansas y la Pontificia Universidad Católica del Perú. Ha sido organizador de conferencias internacionales y coordinación de secciones de investigación científica, y miembro de comités científicos internacionales de conferencias. El Dr. Tapia Takaki también ha sido miembro de comités de revisión de artículos de investigación en revistas de prestigio como en Physical Review Letters.

El Dr. Tapia Takaki ha obtenido proyectos competitivos de investigación del Departamento de Energía de los EE.UU., y hasta la fecha ha obtenido proyectos de financiamiento externo a la Universidad de Kansas con un monto superior a los 1.6 millones de dólares, y ha sido responsable directo de gestiones en la Universidad de Kansas para la contratación de personal que ha resultado en 2 millones de dólares adicionales al Departamento de Física y Astronomía.

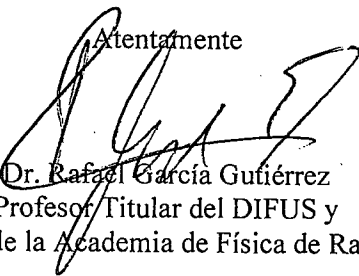
El procedimiento para la inscripción de profesor-investigador extraordinario se encuentra descrito en el Estatuto de Personal Académico (EPA). La figura de profesor-investigador extraordinario es quien, en virtud de haber realizado una obra académica creativa de reconocido mérito, ingrese a la Universidad de Sonora, o bien, sea distinguido con este reconocimiento, y deberá de ser de tiempo completo. La contratación de un profesor-investigador extraordinario puede ser de carácter permanente o temporal, y en el caso de una contratación temporal esta puede ser por tiempo u obra determinada y podrá prorrogarse cuantas veces sea necesario, en las modalidades que el Colegio Académico considere convenientes. En el Estatuto de Personal Académico para profesores-investigadores extraordinarios el Dr. Tapia Takaki estará requerido que sus funciones sean de carácter de tiempo completo durante su presencia física en la Universidad de Sonora.

De ser contratado el Dr. Daniel Tapia Takaki realizará las siguientes tareas y actuará en los siguientes roles y funciones:

- Realizar investigación en física altas energías o en áreas interdisciplinarias y de innovación como en física médica, coordinando las actividades del grupo de altas energías.
- Docencia de cursos especializados en física de altas energías o en áreas interdisciplinarias y de innovación conectadas con esta disciplina como en física médica.
- Supervisión, dirección o co-dirección de investigaciones encaminadas a la elaboración de tesis de licenciatura y posgrado de estudiantes inscritos en la UNISON.
- Coordinador del Programa Internacional de Física de Altas Energías de la UNISON.
- Coordinador de la Programa de doble titulación dentro de los programas de posgrado de la Universidad de Sonora, vinculados con la Universidad de Kansas y proyectos internacionales con el CERN, la Universidad de Catania y otros proyectos internacionales que se desarrollen en el futuro.
- Supervisión de las propuestas de proyectos de investigación internacional vinculadas con proyectos con el CERN.
- Realizar las gestiones para la creación de una unidad académica y de investigación de la Universidad de Sonora en los Estados Unidos, en una primera fase con la Universidad de Arizona. Al mismo tiempo, realizar gestiones para la creación unidades o centros de investigación de instituciones de los Estados Unidos en la Universidad de Sonora, en una primera fase con la Universidad de Arizona. En algunos casos se contempla colaboración con la UNAM.

Sin otro asunto que tratar me despido de usted

Atentamente


Dr. Rafael García Gutiérrez

Profesor Titular del DIFUS y
Presidente de la Academia de Física de Radiaciones





Department of Physics & Electronics
UNIVERSITY OF JAMMU
Jammu Tawi-180006

Prof. Anju Bhasin
High Energy Physics Group

Jammu, India. August 27, 2018

Re: Specialized series of training lectures on nuclear physics by Dr. Daniel Tapia Takaki

To Whom It May Concern:

This is to certify that Dr. Daniel Tapia Takaki, faculty at the University of Kansas, gave a series of lectures entitled "Nuclear Structure" at the Department of Physics and Electronics at the University of Jammu in Jammu, India on February 23 and 24, 2016.

In this specialized series of training lectures Dr. Tapia Takaki discussed the latest experimental techniques used at the CERN Large Hadron Collider for hadronic structure studies, including those using photon-induced processes.

These lectures were attended by many of our faculty, postdoctoral researchers and graduate students from our research group at Jammu.

Yours faithfully,

A handwritten signature in black ink that reads 'Anju Bhasin'.

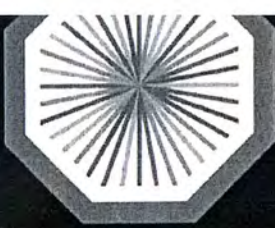
Professor Anju Bhasin
Group Leader
HEP Group

e-mail: anjubhasin@jammuuniversity.in

web: <http://www.jammuuniversity.in/departments/physics/intro.asp>

University of Jammu, BabaSahebAmbedkarRoad, Jammu-180006, India

Phone: +91-191-2436804; +91-191-2453079 FAX: +91-1912436804

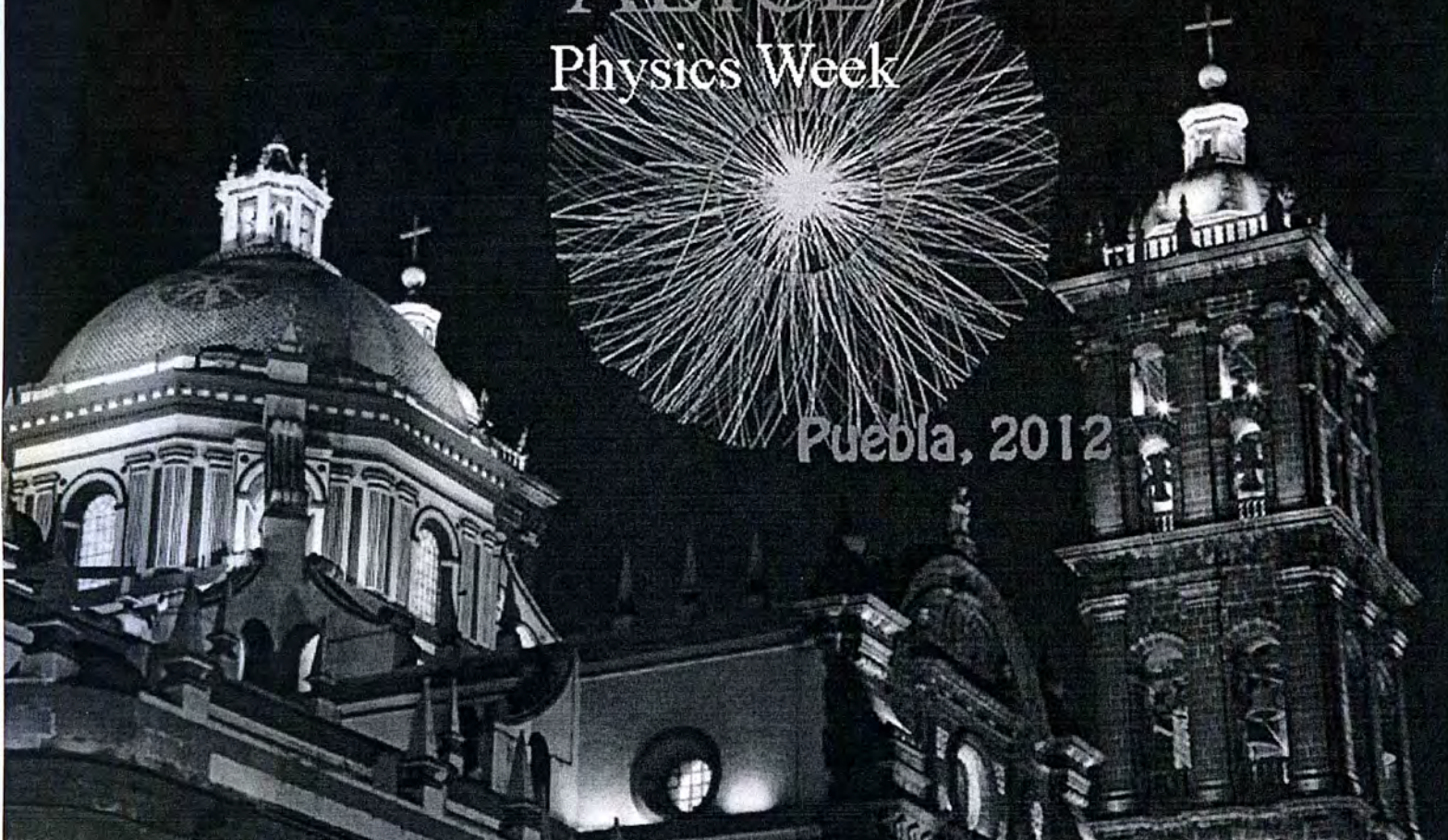


ALICE

Benemérita Universidad Autónoma de Puebla from 27 November to 1 December 2012

ALICE Physics Week

Puebla, 2012



Programme committee

Federico Antinori, head of ALICE Physics Coordination

Registration

This event is open to all members of the ALICE collaboration. Since places are limited, you are kindly requested to register as soon as possible.

Key dates

Registration deadline: 31 October 2012

Physics Board

Silvia Masciocchi, Mateusz Ploskon
Dariusz Miskowicz, Andreas Morsch
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Arturo Fernandez Tellez, BUAP team leader
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Mario Iván Martínez Hernández (BUAP)
Arturo Menchaca, IF-UNAM team leader
Antonio Ortiz Velasquez (Lund)
Guy Paic, ICN-UNAM team leader
Pedro Podesta Lerma (UAS)
Mario Rodríguez Cahuantzi (BUAP)
Daniel Tapia Takaki (Orsay)



Symposium on the Interplay of Astroparticle - LHC Forward Physics

June 2019, Pythagorion
Samos, Greece

Identify and exploit synergies
between the astroparticle and
accelerator physics
communities.

- Ultra-high energy cosmic rays
- Neutrino astrophysics
- Accelerator measurements
- LHC forward physics
- Experiments and theory

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Maximilian Reininghaus, KIT
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**CENTRO DE INVESTIGACIÓN Y DE ESTUDIOS AVANZADOS
DEL INSTITUTO POLITÉCNICO NACIONAL**

**UNIDAD ZACATENCO
DEPARTAMENTO DE FÍSICA**

“Fotoproducción coherente de ρ^0 en el LHC”

Tesis que presenta

Rigoberto Cruz Albino

para obtener el Grado de

Doctor en Ciencias

en la Especialidad de

Física

Directores de tesis: Dr. Gerardo Antonio Herrera Corral
Dr. Daniel Tapia Takaki

Angular correlations of dijets in ultra-peripheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

By

Samuel Steed Boren

Submitted to the graduate degree program in Department of Physics and Astronomy and the Graduate Faculty of the University of Kansas in partial fulfillment of the requirements for the degree of Doctor of Philosophy.

Dr. Daniel Tapia Takaki, Chairperson

Dr. Phil S. Baringer

Committee members

Dr. Estela A. Gavosto

Dr. John P. Ralston

Dr. Stephen J. Sanders

Date defended: July 11th, 2018

The Thesis Committee for Samuel Steed Boren certifies
that this is the approved version of the following thesis :

Angular correlations of dijets in ultra-peripheral Pb+Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV

Dr. Daniel Tapia Takaki, Chairperson

Date approved: July 27th, 2018

APÉNDICE DEL MEMORANDO DE ACUERDO INTERNACIONAL

Entre
LA UNIVERSIDAD DE SONORA
Y
THE UNIVERSITY OF ARIZONA

Este apéndice del Memorando de Acuerdo Internacional entre la Universidad de Sonora ubicada en Hermosillo, Sonora, México (en adelante identificada como "UNISON") y la Junta de Regentes de Arizona representando a University of Arizona (en adelante identificada como "University of Arizona") detalla la creación del Centro Conjunto para Fronteras de Física Fundamental en la University of Arizona (en adelante identificado como "el Centro").

El Centro estimulará iniciativas de investigación en aspectos aplicados, experimentales y teóricos de la física de las interacciones fuertes, incluyendo el estudio de desarrollos de aceleradores y aplicaciones médicas, sirviendo como un puente entre investigadores de ambas instituciones en las ciencias físicas y a través de diferentes disciplinas.

El enfoque del Centro estará dividido en dos áreas: la organización de coloquios y talleres y la creación de un programa de becas para que académicos visitantes realicen investigaciones en el Centro.

- **Coloquios y Talleres:** El Centro organizará una serie de coloquios y talleres sobre física fundamental y sus aplicaciones interdisciplinarias cada año. Los coloquios durarán hasta dos días cada uno, mientras que los talleres generalmente durarán de entre dos a cinco días. El Centro también organizará actividades de difusión, incluyendo una serie de ponencias públicas impartidas ya sea en inglés o español.
- **Becas para Académicos Visitantes:** El Centro contará con un programa de becas para académicos visitantes dirigido a estudiantes de posgrado y científicos de carrera temprana que estén afiliados con una institución académica o de investigación en México o en los Estados Unidos. Los becados realizarán investigaciones en el Centro por un período de tiempo de hasta un mes por cada visita. La beca puede proporcionar apoyo parcial para viaje, hospedaje y comidas.

El Director del Centro será responsable de administrar los programas científicos y de becas del Centro. El Dr. Daniel Tapia Takaki será el Director del Centro por un periodo inicial de cuatro años.

El Centro tendrá un Comité Consultivo Internacional responsable de asesorar en aspectos científicos y organizacionales de las varias actividades del Centro, incluyendo coloquios programados y talleres. El Comité Consultivo Internacional estará integrado por profesores distinguidos de la UNISON y University of Arizona. Los líderes de la industria y académicos distinguidos de otras instituciones académicas también podrán ser nominados para el Comité Consultivo Internacional y serán acordados por la UNISON y University of Arizona.

.....




Académicos que tengan sus nombramientos principales en UNISON y realicen investigaciones en áreas de interés del Centro pueden ser ofrecidos un nombramiento conjunto en University of Arizona para facilitar a la contribución de actividades del Centro. Los términos del nombramiento conjunto serán determinados por University of Arizona en base individual.

El Centro estará ubicado en las instalaciones de University of Arizona en Tucson, Arizona. Los académicos visitantes del Centro estarán requeridos cumplir con las políticas y normas establecidas por University of Arizona para académicos visitantes e invitados universitarios.

Las partes involucradas acuerdan que todas las necesidades de financiamiento necesarias para implementar estas iniciativas delineadas deben ser negociadas y dependerá de la disponibilidad de fondos.

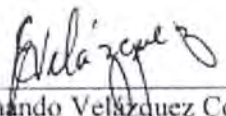
Este Apéndice del Memorando inicia validez en la fecha de firma por los representantes de las Instituciones Participantes y la aprobación por las autoridades competentes de sus respectivos países.

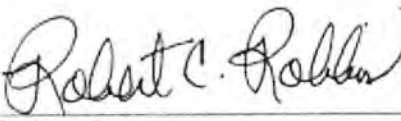
Todos los términos del Acuerdo seguirán en efecto y en vigor.

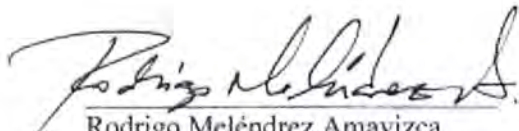
Firmado en esta fecha en Hermosillo, Sonora, México: 12 de abril de 2018


Por la Universidad de Sonora:

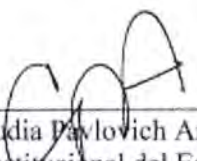
Por la University of Arizona:

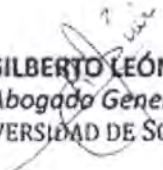

Enrique Fernando Velázquez Contreras
Rector


Robert C. Robbins
President


Rodrigo Meléndrez Amavizca
Director de la División de
Ciencias Exactas y Naturales


Elliott Cheu
Associate Dean of the College of Science


Lic. Claudia Pavlovich Arellano
Gobernadora Constitucional del Estado de Sonora
Testigo de Honor


LIC. GILBERTO LEÓN LEÓN
Abogado General
UNIVERSIDAD DE SONORA


CONSEJO JURÍDICO
DEL PODER EJECUTIVO
DE SONORA



(<https://www.conacyt.gob.mx>)

Comunicados de prensa

Inicio / Comunicación / Comunicados de prensa /

La Universidad de Sonora se integra como nuevo miembro para la colaboración científica en el CMS del CERN

La Universidad de Sonora se integra como nuevo miembro para la colaboración científica en el CMS del CERN

- *La integración de la institución es resultado del apoyo que ha realizado el Conacyt a las investigaciones mexicanas en favor del desarrollo de la sociedad*
- *El convenio de colaboración se dio a conocer el pasado 9 de febrero*

Comunicado 12/17

Ciudad de México, a 7 de marzo de 2018.

Con la intención de fortalecer el desarrollo científico del país, la Universidad de Sonora se convirtió en el nuevo miembro colaborativo para en la investigación del Solenoide compacto de muones (CMS por sus siglas en inglés) de la Organización Europea para la investigación Nuclear (CERN); así lo dio a conocer el Dr. Joel Butler, portavoz del organismo, el pasado 9 de febrero.

El proyecto del CMS forma es parte del Gran Colisionador de Hadrones del CERN, donde físicos e ingenieros realizan investigaciones sobre el origen del universo y, además de estudiar los principios fundamentales que rigen a las partículas sub atómicas y sus interacciones, las investigaciones realizadas

en el CERN tienen un alto potencial de aportar a innovaciones en distintas áreas del conocimiento como en aplicaciones médicas, el cómputo, cálculo en la nube, y desarrollo de aceleradores.

La Universidad de Sonora se une a la Benemérita Universidad Autónoma de Puebla (BUAP), al Centro de Estudios Avanzados (CINVESTAV), la Universidad Autónoma de San Luis Potosí (UASLP), y a la Universidad Iberoamericana como las únicas instituciones de nuestro país que tienen proyectos relacionados con el CMS de CERN. Las instituciones mexicanas contribuyen al proyecto del sistema de muones dentro del proyecto CMS, y el grupo de la Universidad de Sonora contribuye, ahora de manera exclusiva, en el proyecto BRIL de CMS relacionado con mediciones de luminosidad y radiación.

El proyecto del CMS cuenta con más de 4,000 físicos, ingenieros, técnicos y estudiantes de, aproximadamente, 200 universidades e institutos provenientes de 40 países.

La integración de la universidad a proyectos del CERN es resultado del apoyo que ha realizado el Consejo Nacional de Ciencia y Tecnología (Conacyt) durante la actual administración a las investigaciones mexicanas en favor del desarrollo de la sociedad.

La firma del convenio de colaboración se llevó a cabo los días 19 y 20 de febrero, cuando el Dr. Enrique Velázquez Contreras, rector de la universidad, realizó una visita a las instalaciones del CERN, junto con el Dr. Daniel Tapia Takaki, responsable científico del proyecto, así como de varios investigadores del grupo de altas energías.

El rector estuvo acompañado por el Dr. Rodrigo Meléndrez Amavizca, Director de la División de Ciencias Exactas y Naturales; el Dr. Martín Pedroza Montero, Jefe del Departamento de Investigación en Física; el M.C. Guillermo Cuamea Cruz, Jefe del Departamento de Ingeniería Industrial y de Sistemas; el Dr. Marcelino Barboza Flores profesor investigador del Departamento de Investigación en Física (DIFUS); y el Dr. Manuel Valenzuela Valenzuela, Director de Innovación e Internacionalización Educativa, todos ellos miembros de la Universidad de Sonora; así como Mtra. Gabriela Guzzy Arredondo, Directora del Museo Universum de la Universidad Nacional Autónoma de México (UNAM), y el Dr. Gerardo Herrera Corral del CINVESTAV.



VISIT PROGRAMME

Dr Enrique Fernando Velázquez Contreras
Rector
University of Sonora
United States of Mexico

Monday, 19 February 2018

(12 + 4 visitors)

Safety information for the visitors: closed, flat or block-heeled shoes are required for the site visits. Checkboards and helmets will be provided. Access to underground areas is limited for pregnant women and for persons equipped with any of the following: pacemaker, defibrillator, electronic medical dispenser, hearing aid, metal implant. Please let us know if they affect any members of the delegation.

Photographs may be taken during the visit. A link to those taken by the CERN photographer will be sent after the visit.

- 09:20 CERN driver waiting outside the Hôtel Les Nations for transport to CERN
- 09:45 Arrival through CERN Gate B at the steps, building 500
Welcome by Director for Finance and Human Resources M. Steinacher with Adviser for relations with the United States of Mexico J. Salicio Diez at the steps, building 500
- 09:50 General introduction to CERN's activities by J. Salicio Diez
conference room C, 1st floor, building 61 – refreshments
- 10:10 Questions and answers
- 10:20 Presentation on Medical Applications at CERN (M. Cirilli)
- 10:40 Signature of the Guest Book
CERN photographer present
- 10:50 Transport from the steps, building 500 to building 513 accompanied by J. Salicio Diez
- 11:00 The Worldwide LHC Computing Grid and computer centre visit (M. Barroso Lopez)
CERN Data Centre Visit Point, 1st floor, building 513 and computer centre
- 11:30 Transport from building 513 to Cessy, LHC Point 5, building 3594
- 11:50 Met by CMS Collaboration Spokesperson J. Butler with CMS Collaboration Resources Coordinator A. Charkiewicz at the entrance
Remind safety procedure in the Peter Sharp room
- 11:55 Walk through the surface exhibit on the way to building 3578
- 12:00 Don helmets in front of the PM54 lift and descend
- 12:05 Visit CMS underground experimental area (J. Butler with A. Charkiewicz)
- 12:25 Return to surface
- 12:30 Transport from building 3578 to building 504
- 12:50 Light lunch hosted by M. Barroso Lopez with F. Antinori, J. Butler and J. Salicio Diez
1st floor salon, building 504, Restaurant 2
- 13:50 Transport from building 504 to Sergy (France), LHC Point 2, building 2285 accompanied by J. Salicio Diez
- 14:05 Met by ALICE Collaboration Spokesperson F. Antinori at the entrance
Visit ALICE surface permanent exhibition and control room
- 14:15 Don helmets in front of the PX24 lift, remind safety procedure and descend
- 14:20 Visit ALICE underground experimental area (F. Antinori)
- 14:40 Return to surface
- 14:45 Transport from Sergy (France), LHC Point 2, building 2285 to the steps, building 500
- 15:00 End of visit
Transport to the Hôtel Les Nations

Participants

1. Dr Enrique Fernando Velázquez Contreras	Rector, University of Sonora
2. Dr Daniel Tapia Takaki	Professor, University of Kansas and Adjunct Professor, University of Sonora
3. Prof. Gabriela Sara Guzzy Arredondo	Director of Universum, UNAM
4. Dr Manuel Valenzuela Valenzuela	Director of International Programmes, University of Sonora
5. Dr Rodrigo Meléndrez Amavizca	Dean of the Natural Science & Mathematics, University of Sonora
6. Dr Martin Rafael Pedroza Montero	Department Chair, Physics Research Department, University of Sonora
7. Prof. Guillermo Cuamea Cruz	Department Chair, Industrial and Systems Engineering, University of Sonora
8. Dr Marcelino Barbosa Flores	Professor of Physics, University of Sonora
9. Dr José Mario de la Piedra Garza	UNAM
10. Ms Gabriela Pineda Lara	CINVESTAV
11. Ms Santa Elisabeth Walter Tordecillas	Spouse of Dr José Mario de la Piedra Garza
12. Mr Mario Enrique de la Piedra Walter	Son of Dr José Mario de la Piedra Garza
13. Dr Gerardo Herrera Corral	Professor of Physics, CINVESTAV and Member, ALICE Collaboration
14. Dr José Feliciano Benitez	Professor of Physics, University of Sonora and Member, CMS Collaboration
15. Dr Alfredo Martin Castañeda Hernández	Professor of Physics, University of Sonora and Member, CMS Collaboration
16. Dr Javier Alfredo Murillo Quijada	Professor of Physics, University of Sonora and Member, CMS Collaboration

CERN participants

Dr Maite Barroso Lopez	IT Deputy Department Head
Dr Andrzej Charkiewicz	Physics Department CMS Collaboration Resources Coordinator
Dr Manuela Cirilli	Medical Applications Section Leader, Knowledge Transfer Group
Dr José Salicio Diez	International Relations Adviser for Latin America
Dr Martin Steinacher	Director for Finance and Human Resources

CERN Users

Prof. Federico Antinori	ALICE Collaboration Spokesperson, Università e INFN, Padova (IT)
Prof. Joel Butler	CMS Collaboration Spokesperson, Fermi National Accelerator Laboratory (US)

Useful links

CERN and its activities	www.cern.ch
How to get to CERN	http://home.cern/directions