

The Hispanic Physicist

The Newsletter of the National Society of Hispanic Physicists

Year 21

July 13, 2017



Dia de la fisica

NSHP is excited to announce that we will be hosting a Dia de la fisica again at this year's SACNAS conference. The event hosted by the physics department at the University of Utah and co-sponsored by the American Physical Society, the American Astronomical Society, the IEEE Photonics Society, and SACNAS will take place on Oct. 21, 2017. This is the day that SACNAS has designated as the day for field trips, so attendees to the SACNAS conference will not miss sessions. The day will include professional development sessions, scientific talks, lab tours, lunch and reception. Transportation to and from the conference hotels will be provided. There is no charge to attend the meeting, but registration is required. Limited travel funds are available to those wanting to attend. More information can be found here <http://www.physics.utah.edu/dayofphysics2017/index.html>. We hope you can make this meeting. **Please feel free to pass the word to all.**



NSHP Victor Blanco Fellows

The Victor Blanco fellows have been awarded. Three students received the awards, 2 at LIGO and 1 at Vanderbilt. The LIGO-Blanco fellowships went to **Dane Stocks**, a rising sophomore majoring in physics at Stanford. He will spend the summer working with Joe Betzwieser at the LIGO Livingston Observatory working real-time calibration in control software. The second LIGO-Blanco went to **Cierra Coughlin**, a rising senior studying Astrophysics at Columbia University. She will be working with Alex Urban at Caltech on electromagnetic brightness of compact binary mergers. The Blanco fellow at Vanderbilt University is **Justin Malave** from Baldwin-Wallace College in Baltimore who will be working on detecting the existence of a sterile neutrino by building a model to study the reactor flux of the 1995 ILL experiment.

Congratulations to Dane, Cierra, and Justin.



Member Spotlight

Ximena C. Cid
Carson, California
Assistant Professor



NSHP's Ximena Cid is on the AAPT's Member Spotlight

There is something to say about the sense of calm and peace I feel when I see the clear night sky. I never have more wonder than when I look up at a dark sky, dark enough to see. The whys and hows are so abundant, so free flowing. What an incredible

space to find clarity. I came into the world of physics through astronomy. I received my bachelor's degree in astrophysics from UC Berkeley and while I was at Cal I had the great fortune to work under Dr. Janet Luhmann in the space sciences labs studying where solar energetic particles originated from (the corona during a coronal mass ejection or the surface of the Sun during a flare). See complete article here: <http://www.aapt.org/membership/july2017.cfm>

Congratulations Ximena!



Lecturer - Southern Illinois University Carbondale

The Department of Physics at Southern Illinois University Carbondale invites applications for a 50% time, term Lecturer position starting 8/16/2017. This position is contingent on available funding. A Master's degree in Physics is required as the minimal educational level for the position (a Ph.D. in Physics is preferred). Applicants must have experience teaching Physics courses at the university level. Please send a letter of application, a CV and arrange for three letters of recommendation to be emailed to Ms. Sally Pleasure c/o Lecturer Search Committee at spleasure@physics.siu.edu or by US mail to: Sally Pleasure, c/o Lecturer Search Committee, Department of Physics, Southern Illinois University Carbondale, 1245 Lincoln Drive, Carbondale, IL 62901. Review of the applications will begin July 21, 2017 and will continue until the position is filled. SIU Carbondale is an affirmative action/equal opportunity employer of individuals with disabilities and protected veterans that strives to enhance its ability to develop a diverse faculty and staff and to increase its potential to serve a diverse student population. All applications are welcomed and encouraged and will receive consideration.



Hosts needed for 2018 Research & Engineering Apprenticeship Program

The Academy of Applied Science, in partnership with the Army's Educational Outreach Program (AEOP), is seeking host sites for the Research & Engineering Apprenticeship Program (REAP) for the summer of 2018. REAP provides high school students, especially those from underserved and under-represented populations, a summer apprenticeship at universities. Student apprentices contribute to the research activities in a university laboratory research setting under the supervision and guidance of a qualified mentor.

Proposals are due no later than **8:00pm, EST, Friday, August 18, 2017**. Visit www.usaeop.com to find out more about other AEOP programs. Contact: Pamela Hampton, Army Educational Outreach Program, Apprenticeship Lead Manager, www.usaeop.com, (603) 228-4530, Ext 208



PhD Position at Inst. Nuclear Physics, Technical University Darmstadt

We have an opening for a doctoral student position within the Collaborative Research Center SFB 1245 of the DFG at the Institut für Kernphysik of the Technische Universität Darmstadt. The goal of SFB 1245 is a systematic understanding of nuclei across the nuclear chart from effective field theories of the strong interaction that are tested with key experiments at the superconducting Darmstadt electron linear accelerator (S-DALINAC) and other world-leading accelerator centers. The PhD project focuses on the quenching phenomenon of the spin-isospin strength in nuclei common to electromagnetic and weak processes. Transverse electron scattering form factors will be measured with the unique 180° system at the S-DALINAC. The successful applicant is expected to complete the commissioning of the upgraded 180° system and investigate magnetic excitations in light and medium-mass nuclei. The doctoral research is embedded in an integrated graduate program with a wide range of opportunities for training and development of personal skills. Applicants are invited to submit a CV, copies of transcripts and certificates, two recommendation letters, and a letter of motivation electronically to sfb1245@ikp.tu-darmstadt.de. Further information can be found online at <http://www.sfb1245.tu-darmstadt.de>. For questions please contact the project leaders Professor Dr. Peter von Neumann-Cosel (vnc@ikp.tu-darmstadt.de), Professor Dr. Joachim Enders (enders@ikp.tu-darmstadt.de).



EMIS2018

<http://indico.cern.ch/e/EMIS2018>

First Circular June 2017

The International Conference on Electromagnetic Isotope Separators and Related Topics (EMIS) will be held at CERN, the European Organization for Nuclear Research, in Geneva, Switzerland, from 16th to 21st September 2018. The EMIS-2018 conference will be hosted by ISOLDE, CERN which is

celebrating 50 years of radioactive beams. EMIS is the long-running flagship conference series on techniques in the field of low-energy nuclear science. EMIS-2018 will be the eighteenth conference in this series. Recent conferences in this series have been held in Grand Rapids, MI, USA (2015), Matsue, Japan (2012), Deauville, France (2007), and Victoria, B.C. Canada (2002).

Scientific topics of EMIS-2018 include:

- Isotope production, target and ion source techniques
- Techniques related to high-power radioactive ion beam production
- Low-energy and in-flight separators
- Storage rings
- Ion guide, gas catcher, and beam manipulation techniques
- Ion optics and spectrometers
- Ion traps and laser techniques
- Instrumentation for radioactive ion beam experiments
- Applications of radioactive ion beams

Participation

All scientists, post-docs and graduate students that are interested in research and development related to production of radioactive nuclear beams and their scientific use are encouraged to attend.

Important Dates

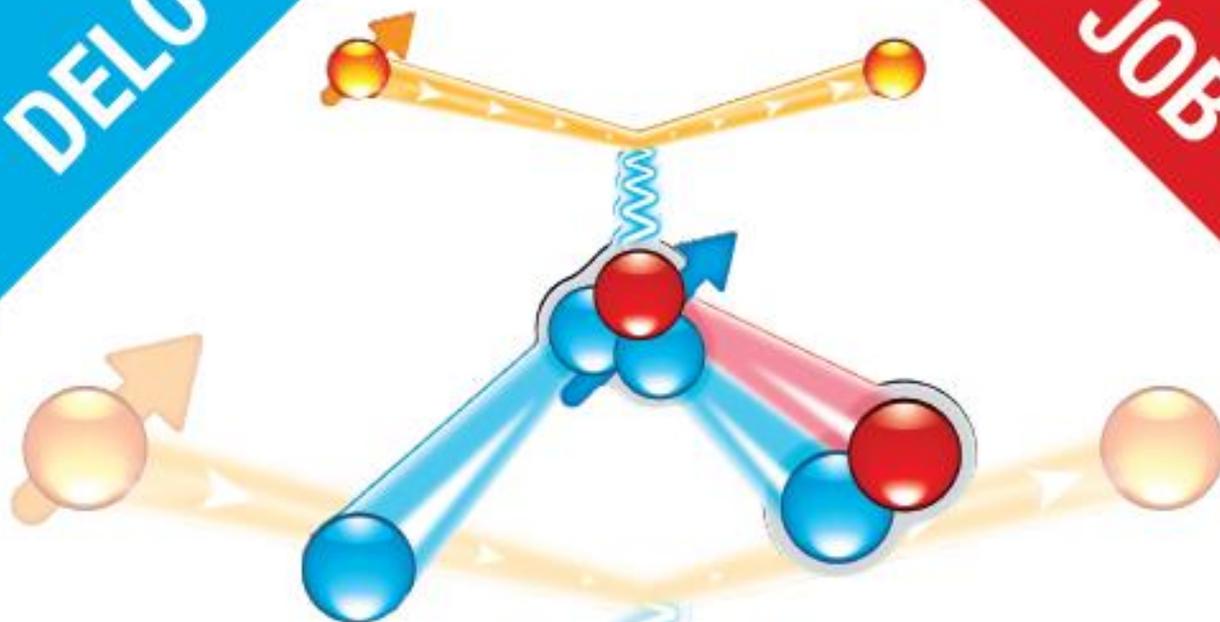
- EMIS-2018 Conference 16-21 September, 2018
- Tentative dates for the organization of the meeting:
 - First Circular – June 2017
 - Second Circular – Call for Abstract Contributions – January 2018
 - Deadline for Contributed Abstracts – End February 2018
 - Conference Program - available May 2018
 - End of Early Registration and Hotel Reservations at reduced rate – 31 July 2018

Contacts

Please address questions about the EMIS-2018 conference to EMIS2018@cern.ch.

DELO

JOB



Mladi raziskovalec / Young researcher

Programska skupina Struktura hadronskih sistemov na Institutu Jožef Stefan vabi k sodelovanju mladega raziskovalca, ki ga zanima raziskovanje na področju eksperimentalne jedrske fizike. Njegovo delo bo v okviru mednarodnih kolaboracij A1 in NUSTAR obsegalo snovanje in gradnjo visokozmogljivih detekcijskih sistemov za novi raziskovalni center FAIR v Darmstadt, ter študij izbranih jedrskih procesov na pospeševalniku MAMI v Mainz u. S tem si bo mladi sodelavec pridobil obširno znanje tako o jedrski instrumentaciji kot tudi o strukturi jeder in osnovnih interakcijah med nukleoni, ter hkrati tudi sam prispeval k razumevanju zgradbe snovi in vesolja.

The research group Structure of hadronic systems at the Jozef Stefan Institute is searching for a young scientist interested in doing research in the field of experimental nuclear physics. Within the scientific program of the international collaborations A1 and NUSTAR the scope of the candidate's work will encompass developing and building high-performance detector systems for the FAIR research center in Darmstadt and investigating selected nuclear processes with the MAMI accelerator in Mainz. The young researcher will become an expert on nuclear instrumentation and gain knowledge on properties of nuclei and fundamental interactions between nucleons, while also contributing new insight into the structure of matter and universe.

Razpis je objavljen na spletni strani <https://www.ijs.si>, rok za prijave pa je četrtek, 10. Avgust 2017. The details about the call can be found at <https://www.ijs.si>. Application deadline is Thursday, August 10, 2017.

Več informacij: / More information:
Miha Mihovilovič, miha.mihovilovic@ijs.si
Maja Rebolj, maja.rebolj@ijs.si

 Institut
"Jožef Stefan"
Ljubljana, Slovenija



More information: <https://www.ijs.si/ijsw>



Open research position in Theoretical Physics - Pisa, Italy

The University of Pisa (Italy) has issued a call for one researcher position in Theoretical Physics within the Department of Physics "E. Fermi". The position is open to any researcher in the field of theoretical nuclear physics, high-energy physics, including lattice QCD and string theory, mathematical physics, and statistical physics. The deadline for application is July 31, 2017.

The researcher (type "ricercatore universitario di tipo b - senior" - RTDb) will have a full time contract for the duration of three years with mainly research duties and some teaching duties (essentially one course per year, about 80 hours of teaching). At the end of the three years, if the researcher has obtained the "abilitazione scientifica nazionale", she/he will be automatically hired by the University of Pisa as associate professor.

Therefore, this RTDb position is equivalent to a tenure track position, by international standards.

All the information can be found at: <https://www.unipi.it/ateneo/bandi/ricercat/ricercator1/procedura/index.htm>.

In particular, the admission procedure requires Ph.D. (or equivalent title), 12 publications will be evaluated by a committee to form a shortlist, interview. Expected start: end of year 2017. The net salary will be approximately 42 kEUR per year (gross salary). The researcher will have access, as the other members of the theory group, to funds for travels, both from the University of Pisa and from INFN - Pisa branch.

Contact: Ignazio Bombaci: ignazio.bombaci@unipi.it, Angela Bonaccorso: angela.bonaccorso@pi.infn.it, Alejandro Kievsky, alejandro.kievsky@pi.infn.it, Laura E. Marcucci: laura.elisa.marcucci@unipi.it, Michele Viviani: michele.viviani@unipi.it.

The Hispanic Physicist. Published whenever there is news and the Editor has enough time. Send news, letters, congratulations, etc. to **Jorge A. López**, jorgelopez@utep.edu. <http://www.hispanicphysicists.org/>.