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Graduate Student Physics Conference

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SPEAKERS 

Speakers

The CAM 2019 conference will feature the following distinguished speakers (alphabetical order by surname):

Karen Salomé Caballero Mora (Mexico)

Thursday, July 25th, 16:00

Dr. Karen Salomé Caballero Mora works in the Faculty of Sciences in Physics and Mathematics at Autonomous University of Chiapas (FCFM-UNACH), Mexico. She got her PhD in Astroparticle Physics at the Karlsruhe Institute of Technology in Karlsruhe, Germany. She is a member of the Pierre Auger Collaboration, HAWC experiment, LAGO Collaboration, JEM-EUSO Collaboration and Project MATHUSLA. She was awarded the national LOREAL-UNESCO-CONALMEX-CONACYT scholarship For Women in Science in 2014. She has been the organizer of several Schools and Conferences on Cosmic Rays and Astrophysics in Latin America. Her areas of research include high energy physics, cosmic ray mass composition, gamma rays, instrumentation on cosmic rays, and high performance computing. [Read more. \(http://www.curso.unach.mx/~kcaballero/\)](http://www.curso.unach.mx/~kcaballero/)

Jeter Hall (Canada)

Friday, July 26th, 8:30

Dr. Jeter Hall is the Director of Research at SNOLAB. He completed his PhD at the University of Utah, searching for gamma rays created by dark matter annihilation. He then took a postdoctoral position at Fermilab where he worked on the CDMS-II, SuperCDMS, and COUPP collaborations. All of these experiments were underground dark matter detectors. He specifically focused on electronics for SuperCDMS and operating the detectors with higher voltages, resulting in lower thresholds. On COUPP and eventually PICO, he focused on acoustic analysis of bubble chamber events and the deployment of the first 2-litre bubble chamber at SNOLAB. [Read more.](https://www.snolab.ca/content/dr-jeter-hall) (<https://www.snolab.ca/content/dr-jeter-hall>)

Adrian Liu (Canada)

Thursday, July 25th, 9:30

Dr. Adrian Liu is an astrophysicist and cosmologist. He specializes in the data analysis of radio telescope observations, with the goal of understanding Cosmic Dawn, the period in our Universe's history when first-generation stars and galaxies were forming. Originally from Hong Kong, Adrian Liu holds a Bachelor's degree from Princeton University and a PhD from the Massachusetts Institute of Technology, both in Physics. From 2012 to 2018 he served as a postdoctoral researcher at the University of California Berkeley, first as a Berkeley Center for Cosmological Physics Fellow, and then as a Hubble Fellow. Since August 2018, he has been an Assistant Professor of Physics at McGill University, as well as an Azrieli Global Scholar at the Canadian Institute For Advanced Research. [Read more.](http://www.physics.mcgill.ca/~acliu/) (<http://www.physics.mcgill.ca/~acliu/>)

Eduardo Martínez-Montes (Cuba)

Saturday, July 27th, 8:30

Dr. Eduardo Martínez-Montes is a Senior Researcher at the Neuroinformatics Department of the Cuban Neuroscience Center. Mainly dedicated to research and teaching on methods of analysis in Neuroscience, he majored with a Bachelor of Science degree in Physics from the University of Havana. He began working in the Cuban Neuroscience Center, in the Department of Neurophysics and Neuroinformatics and obtained the title of Doctor in Physics in 2009, with a Thesis introducing new methodologies for multidimensional space-time-frequency analysis of brain electrical activity and multimodal EEG-fMRI analysis. Dr. Martínez-Montes has participated in diverse research projects in the Cuban Neuroscience Center and in collaboration with international institutes in Japan, United Kingdom, Canada, France, Chile and Italy. His current research interests cover the theoretical development of statistical methods and the implementation of neuroinformatics tools for the analysis of brain activity.

Tonatiuh Matos Chassin (Mexico)

Friday, July 26th, 13:00

Dr. Tonatiuh Matos Chassin is Professor at Physics Department of Centro de Investigación y de Estudios Avanzados del IPN, in México. His research interests are dark matter, dark energy and theoretical astrophysics. He proposed back in 1998 that dark matter galaxy halos are made of Scalar Fields, which condensate forming astrophysical-size Bose-Einstein-Condensates. Those halos behave very similar to the real galactic halos. Today the Scalar Field Dark Matter is one of the favourite candidates to be the dark matter in the Universe. [Read more. \(https://www.fis.cinvestav.mx/~tmatos/\)](https://www.fis.cinvestav.mx/~tmatos/)

Zohar Nussinov (United States)

Thursday, July 25th, 13:30

Dr. Zohar Nussinov is a Professor of Physics at Washington University in St. Louis. He received his B.Sc. from Tel-Aviv University and his Ph.D. from UCLA and his prime focus of research is in condensed matter physics. This covers both “hard” (electronic) and “soft” (essentially classical) systems. One of his main passions has been the study of the glass transition, but his research is diverse and spans many problems.

The application of simple statistical mechanics and classical mechanics ideas to graph theory and satisfiability problems have led to remarkably simple algorithms for old problems, with ideas resting on dynamics in high dimensions where slow convergence to the solution can be avoided. [Read more. \(https://physics.wustl.edu/people/zohar-nussinov\)](https://physics.wustl.edu/people/zohar-nussinov)

Midhat Farooq (United States)

Saturday, July 27th, 9:30

Dr. Midhat Farooq earned her B.S. in physics and math from UCLA and her PhD in physics from University of Michigan. Her dissertation research involved building an absolute magnetometer to calibrate the magnetic field measurement for the muon g-2 experiment at Fermilab. During graduate school, Midhat served on her department’s graduate council, Society for Women in Physics executive board, and the Diversity, Equity, and Inclusion committee, organizing various professional development events and helping shape departmental policies. Midhat is now the Careers Program Manager at APS and helps undergraduate and graduate students find resources and opportunities for their respective career paths.

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