Welcome To Pittsburgh!

Pittsburgh: The Coolest American City You Haven't Been To

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Andrea Poe

Journalist who covers travel, adoption and business issues around the globe





PITTsburgh Particle Physics, Astrophysics, and Cosmology Center



PITT PACC coordinates and enhances local activities in experimental, observational, and theoretical particle physics, astrophysics, and cosmology.

Welcome To PITT PACC!

PITT PACC Members

<u>Members</u>

(http://www.physicsandastronomy.pitt.edu

/pittpacc/members)

Associate Members

(http://www.physicsandastronomy.pitt.edu

/pittpacc/assocmembers)

Previous Members

(http://www.physicsandastronomy.pitt.edu

/pittpacc/previous-members)

PITT PACC Meetings

Calendar

(http://www.physicsandastronomy.pitt.edu

News and Research

Mission (pittpacc/mission)

Research (pittpacc/research)

Publications (pittpacc/publications)

News and Events (pacc-news-and-events)

Talk Repository (pittpacc/talk-repository)

Local information

Contact

(http://www.physicsandastronomy.pitt.edu

- Members: ~23 Pitt faculty
 - + 2 PITT PACC Fellows
 - + Postdocs, students, visitors
- Associate Members:

CMU; PSU; OSU; MSU; SUNY-Buffalo, CWRU You can also join! (free of charge; and free Pheno Symp. & workshops)

 In both theory and Experiments/observation:

Expt: ATLAS;

T2K, NOva, MicroBooNE, MINOS, MINERvA, DUNE; Belle II LSST, DESI, DEEP2,3 ...

Theory: QCD, EWSB, Higgs, v's, DM, BSM, ...
Cosmo: CMB, DE ...

PITT PACC Missions

- Enhance research activities for particle physics, astrophysics, and cosmology.
- Strengthen interactions and collaborations among theorists and experimentalists.
- Promote local research to the general community.

PITT PACC Activities

- Organizing joint seminars/colloquia broad interests; joined with CMU
- Organizing workshops:
 in rapid-response, on hot topics
- And other conferences:
 Pheno Symposia; CTEQ Summer schools;
 Experimental collaboration meetings ...
- Host visitors:
 Faculty sabbatical; international postdocs & students
- Host PITT PACC Public Lectures

T. Han

PITT PACC Workshops

PAST WORKSHOPS:

US ATLAS Summer Analysis Workshop

Organizers: Joe Boudreau, Tae Min Hong, Jim Mueller July 30 - August 2, 2018

New Advances in NIR type la supernova science

Organizers: Lluis Galbany, Michael Wood-Vasey April 11-13, 2018 University Club, Conf. Room B & Gold Room

Probing the Nature of Dark Matter with LSST Organizers: Andrew Zentner, Yao-Yuan Mao,

Alex Drlica-Wagner (Fermilab) March 5-7, 2018

University Club, Conf. Room A

Light Dark World Forum 2017, October 19-21, 2017

Organizers: Brian Batell, Cindy Cercone, Ayres Freitas, Ahmed Ismail, Hye-Sung Lee, Tongyan Lin, David McKeen, Maxim Pospelov

Digging Deeper at LHC Run II, February 23-25, 2017

Organizers: Tae Min Hong, Brian Batell, Ahmed Ismail, David McKeen

UPCOMING WORKSHOPS:

The NuTheories Workshop: Beyond the (3 x 3) Paradigm at Current and Near-Future Facilities

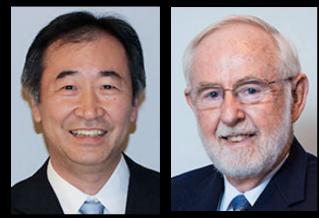
Organizers: Josh Berger, Brian Batell, Cindy
Cercone, Dorival Gonçalves, Tao Han, Ahmed Ismail, Donna
Naples, Richard Ruiz, Cedric Weiland
November 4-10, 2018

Thank you all!

Speakers

- Brian Batell (University of Pittsburgh)
- Joshua Berger (University of Pittsburgh)
- Marco Drewes (Université Catholique de Louvain)
- Ivan Esteban (Universitat de Barcelona)
- Pavel Fileviez Perez (Case Western Reserve)
- Karsten Heeger (Yale)
- Julian Heeck (University of California, Irvine)
- Doojin Kim (Arizona)
- Danny Marfatia (Hawaii)
- Andy Mastbaum (Chicago)
- Dave McKeen (TRIUMF)
- Miha Nemevšek (Jožef Stefan Institute)
- Vittorio Paolone (University of Pittsburgh)
- Diana Parno (Carnegie Mellon University)
- Yuber Perez-Gonzalez (FNAL)
- Maxim Pospelov (University of Victoria & Perimeter Institute)
- Mark Ross-Lonergan (Columbia University)
- Richard Ruiz (Université Catholique de Louvain)
- Bibhushan Shakya (University of California, Santa Cruz)
- Sarah Shandera (Penn State University)
- Alex Sousa (Cincinnati)
- Michael Trott (Niels Bohr Institute)
- Yun-Tse Tsai (SLAC)
- Jessica Turner (FNAL)
- Cédric Weiland (University of Pittsburgh)
- Yongchao Zhang (Washington University)

Great Years for v-Physics!







"for the discovery of neutrino oscillations, which shows that neutrinos have mass"

Fundamental Physics Break Through Prize

Daya Bay, K2K/T2K, KamLand, SNO, SuperK "For the fundamental discovery and exploration of neutrino oscillations, revealing a new frontier beyond, and possibly far beyond, the standard model of particle physics."

PITT PACC is very proud of our awardees:

Donna Naples, Steve Dytman, Vittorio Paolone, Istvan Danko

Great potential for v-Physics!

Acknowledging the "Neutrino Theory Network"

The Neutrino Theory Network (NTN) is an effort to strengthen the US ne and its impact on the US neutrino experimental program. The Department provided funds for the current year to support the first round of NTN act future is under consideration and will be influenced by the success of this Bonnie Fleming (Yale U./Fermilab)

- Funding for a student or postdoc to spend one to a few months at a national laboratory to collaborate on a defined activity;
- Funding for a professor or lab scientist to spend up to a month visitir collaborate on a defined activity;
- Partial funding for meetings and workshops, preferentially focused or Co-Pl's: Cedric, Richard, TH discussed in depth.
- Physics of neutrino interactions: theory of neutrino-nucleon and neut Renata Funchal (USP) implementation in generators;
- Physics of neutrino detection: theoretical work to better understand backgrounds register in detectors, guide new searches, including for
- Physics of neutrino mixing and neutrino properties: theoretical work neutrino propagation, including new physics frameworks, how to ext measured data, and the integration with other measurements.

Scientific Steering Committee

John Beacom (Ohio State University)

Marcela Carena, chair (Fermilab/U. Chicago)

Joseph Carlson (Los Alamos)

Alex Friedland (SLAC)

Graciela Gelmini (UCLA)

Yuval Grossman (Cornell University)

Patrick Huber (Virginia Tech)

Andreas Kronfeld (Fermilab)

Hitoshi Murayama (UC Berkeley, Berkeley Lab, Tokyo U. IPMU)

Thank you!

Neutrino Theory Network Scientific Advisory Board

Andre de Gouvea, chair (Northwestern U.)

Belen Gavela (UAM/IFT)

Roxanne Guenette (Harvard U.)

Chang Kee Jung (Stony Brook U.)

Alessandro Lovato (Argonne)

Cecilia Lunardini (Arizona State U.)

Pedro Machado (Fermilab)

William Marciano (Brookhaven)

Sanjay Reddy (INT, U. Washington)

Kate Scholberg (Duke U.)

Let's start the NTN kick-off activity

Welcome All!

Look forward to

the stimulating talks & discussions.

Hope you enjoy the workshop and your stay at Pitt!



... the darkest days in Pittsburgh



A gunman opened fire in a Pittsburgh synagogue on Saturday, leaving 11 people dead and six others injured. Oct. 27, 2018 Brendan Smialowski/Agence France-Presse — Getty Images

Pittsburgh Shooting: The Aftermath

Please join us to condemn the senseless hatred in the strongest terms, offer the deepest sympathy to the victims and their families & friends.