

DPF Program Committee meeeting for 2019 APS April Meeting

December 20, 2018

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2019 DPF Grad Slam

- Procedure and rules
 - Included in this month's DPF newsletter
 - Requested a separate email to DPF members about the process (e.g. abstract submission requirement)
- Judging
 - Judging in the **preliminary rounds** will be conducted by a panel of DPF members (faculty members / lab scientists, postdocs and students) via video in **March**.
 - **Sixteen finalists** will compete live before a second panel and April meeting participants during lunch time on **Saturday and Sunday, April 13-14**.
- Today's discussion topic: timeline
 - Online registration open: January 15, 2019
 - Online registration for Grad Slam by February 15, 2019
 - # of participants → Determine dates for preliminary rounds & formation of judges by Feb. 28, 2019

Saturday Evening: Town Hall Meeting on Strategy

- Topics: Saturday, April 13 (5:00 - 7:00 pm)
 - Primary: Timeline and scope of Snowmass
 - Others: P5, next National Research Council studies (the previous one was EPP2010 which took place in 2005)
- Today's discussion topic: participants
 - Inviting DPF, DBP, DAP, DNP members
- Today's discussion topic: agenda
 - (5') Introduction
 - (15') European Strategy: Fabiola Gianotti
 - (50') Short presentations on "lessons learned": ~10 presentations (5' each), selected from conveners of 2012 Snowmass, 2013 P5 members, early career members, DOE/NSF colleagues
 - (30') Q/A with the audience
 - (20') Drafting the timeline and scope of Snowmass

Sunday Evening, April 14

- Topics
 - DPF Business meeting
 - Early career scientists (students, postdocs, junior faculty) meet funding agencies

Mini-Symposia

- Format
 - Theme
 - Opening speaker
 - Invited
 - Short talks
 - Select based on submitted abstracts during the sorters meeting on Feb. 1
- Timeline
 - Inviting opening speakers by early January
 - Adding the APS database by ~mid January

Mini-Symposia: w/ DNP

- Relating electron and neutrino scattering: neutrino interactions for oscillation experiments
 - Session Chair: Alex Himmel, Fermilab, ahimmel@fnal.gov
 - Opening Speaker: Minerba Betancourt, Fermilab, betan009@fnal.gov
 - Short talks
- Tonne-Scale Neutrinoless Double Beta Decay R&D
 - Session Chair: Alfredo Galindo-Uribarri, ORNL, uribarri@ornl.gov
 - Opening: Andrea Pocar, University of Massachusetts, Amherst, pocar@physics.umass.edu
 - Short talks

Mini-Symposia with DAP

- Cosmic Microwave Background
 - Potential talks
 - Theory/Overview
 - Constraining inflation using the CMB (Raphael Flauger?)
 - What can we learn from high resolution observations of the CMB? (Colin Hill?)
 - The CMB foreground challenge
 - Current Experiments
 - SPT program and latest results
 - ACT program and latest results
 - BICEP/Keck program and latest results
 - There are three "future" talks worth having:
 - Plans for the Simons Observatory
 - Plans CMB-S4
 - Plans for future space missions
 - Chair and opening speaker (TBD)

Mini-Symposia with DAP

- Multi-Messenger Astrophysics
 - Potential talks
 - IceCube nu's followed up with optical and gammas – big news last year
 - LIGO followed up by everything – going to be big news as new run starts in Jan. 2019
 - “Auger + ...” or “DES optical galaxy clusters plus x-rays & CMB”
 - Chair and opening speaker (TBD)

Potential talks

- Invited Session “Dark Matter Detection: New Ideas”
 - ABRACADABRA (A Broadband/Resonant Approach to Cosmic Axion Detection with an Amplifying B-field Ring Apparatus)
- Mini-Symposium “Relating electron and neutrino scattering: neutrino interactions for oscillation experiments”
 - Potentially new results from PROSPECT (short baseline neutrino oscillations)