



*The* UNIVERSITY of OKLAHOMA



# Energy Frontier Early Career Update

Grace Cummings and Amber Roepe

Snowmass Community Planning Meeting, 07 October 2020

# Early Career Activities

- Bi-weekly **Overview** Meetings
- Special Topic Presentations
  - Past
    - Muon Collider [\[Indico\]](#)
    - LHCe, FCC-eh + MC Task Force [\[Indico\]](#)
  - Future
    - EF04
- Cross Frontier (Early Career) Outreach
  - Introductory Series [\[Indico\]](#)
  - Coffee Collisions
- General Contacts for all things EC
  - If you want to talk to young people, we can put you in touch

54 attendees!

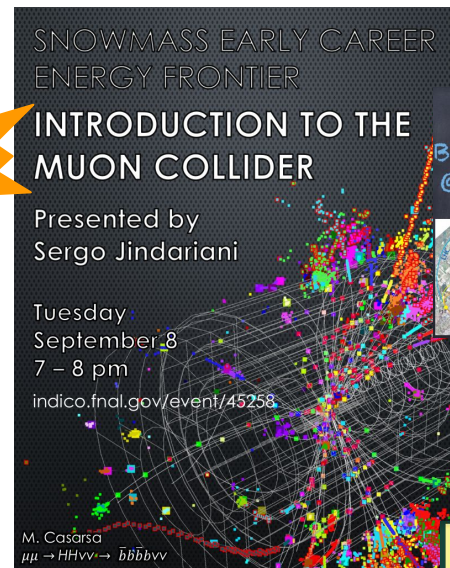
SNOWMASS EARLY CAREER ENERGY FRONTIER

## INTRODUCTION TO THE MUON COLLIDER

Presented by  
Sergo Jindariani

Tuesday  
September 8  
7 – 8 pm  
[indico.fnal.gov/event/45258](http://indico.fnal.gov/event/45258)

M. Casarsa  
 $\mu\mu \rightarrow HH\nu\nu \rightarrow \bar{b}b\bar{b}\nu\nu$



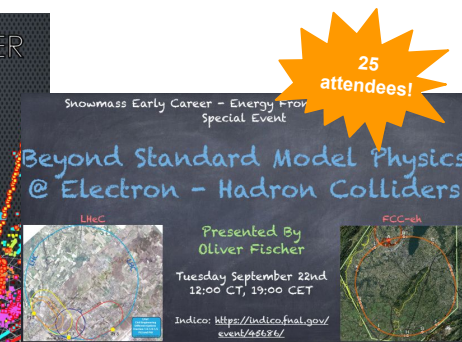
25 attendees!

Snowmass Early Career - Energy Frontier Special Event

## Beyond Standard Model Physics @ Electron - Hadron Colliders

Presented By  
Oliver Fischer


Tuesday September 22nd  
12:00 CT, 19:00 CET  
Indico: <http://indico.fnal.gov/event/45486/>



Let us know if you have a Special Topic to present!

Snowmass Early-Career Outreach presents -

## Coffee Collisions!



Collide with another Snowmass participant for a coffee to build a new connection. Talk to, so you can just think about the future of physics!

based on common interests, institutes and experiments.

chat, before 30 September : [/D7B6](#)

you introduced at?" "What's it like to work at your facility?"

over in the next 40 years?" "What is best about my country/ state?"

event: [snowmass-ec-outreach@fnal.gov](http://snowmass-ec-outreach@fnal.gov)

Snowmass Early Career

## Frontier Introductions Series

Come meet our Energy, Instrumentation, & Cosmic Frontiers!  
Aug 7, 11a CDT/12p EDT on Zoom

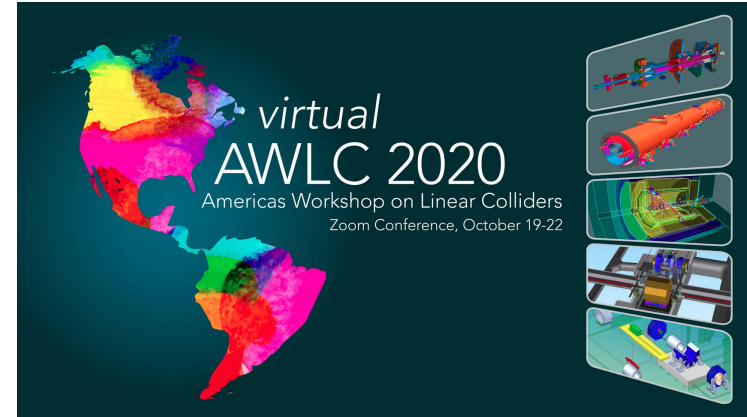
Indico Event: <https://indico.fnal.gov/event/44675/>  
Website: <https://snowmass21.org/start/young>  
Join us on Slack! #snowmass-young

Snowmass (& P5) is the Particle Physics community's decadal process for defining our priorities for funding & advocacy.

Point of Contact: Tiffany Lewis  
[tiffany.lewis@fnal.gov](mailto:tiffany.lewis@fnal.gov)  
on behalf of SEC-Inreach

# Early Career Initiatives

- Americas Workshop on Linear Colliders (AWLC2020)
  - October 19 -22, 2020 [[Conference Link](#)]
  - We will speak on panel w/ EC Accelerator Frontier + EC Instrumentation Frontier
- LHC - wide Seminar/Workshop
  - Date TBD
  - Introducing Snowmass (not just EF)
  - CMS Experiment's Young Scientist Committee (YSC) is first partner
  - Branching out to other LHC young scientist's groups
- Project Matching
  - Interest Survey (need a project?) [[Survey Link](#)]
  - Information on LOI's that need effort



Snowmass\_Project\_Matching

If you are interested in taking part in a study for Snowmass, but do not have a project, this is the form for you.

\* Required

Name \*

Your answer \_\_\_\_\_

Email \*

Your answer \_\_\_\_\_

Topical Group of Interest \*

EF01: EW Physics: Higgs Boson properties and couplings

EF02: EW Physics: Higgs Boson as a portal to new physics

# Early Career Topical Group Liaisons

EF EC Gen	Grace Cummings, Amber Roepe
EF01	Opportunities for involvement!
EF02	Sam Homiller, Chris Hayes
EF03	Danny Noonan
EF04	Saptaparna Bhattacharya, Vallary Bhopatkar
EF05	Jennifer Roloff, Matt LeBlanc
EF06	Justin Williams, Cristian Baldenegro, Timothy Hobbs
EF07	Timothy Hobbs
EF08	Jeff Shahinian, Johan Bonilla
EF09	Amber Roepe , Julia Gonski
EF10	Suchita Kulkarni, Bill Balunas



Grace Cummings



Amber Roepe



Sam Homiller



Chris Hayes



Danny Noonan



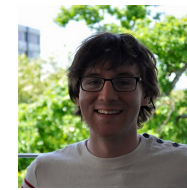
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Matt LeBlanc



Justin Williams



Cristian Baldenegro



Jeff Shahinian



Johan Bonilla



Julia Gonski



Suchita Kulkarni



Bill Balunas

TG Liaisons and EF EC Convenors **change every 3 months**. For updated contacts and contact info, please consult our [EC Contact Spreadsheet](#)

# State of Early Career Involvement

- **Advisor Involvement = Early Career Involvement**
  - Supervisors need to **sanction and encourage** student/postdoc involvement
  - Most current EC involvement comes within established institutional involvement
- **2020 Burn-out**
  - Research life is already complex, so add:
    - COVID-19 related illness and loss
    - Work from home challenges
    - Fears about opportunities lost
- **CPM close to when a lot of folks are just learning about Snowmass**
  - Semester still new
  - Summer vacations finally over



Already harrowing  
career path



Worldwide pandemic



Little time for Snowmass

# Early Career EF Bridging the Gaps

- Informing the Early Career
  - Snowmass channels are echo chambers
  - Many EC folks still do not know what Snowmass is
- Snowmass-lite
  - Keep our meetings overview, hard 1 hour cap
- Collect the concerns that do not fit into physics discussions
  - Culture of Particle Physics
    - Service work appreciation
    - Collaborative environments
    - Work-life balance
  - Jobs → We want them (industry and academia)
  - Sustainability of physics
    - Energy consumption per TeV
    - Carbon footprint of each batch job



- Collaboration email lists
- Social Media

# Early Career Energy Frontier: Get Involved!

- Next SEC EF Meeting **October 20th at 7 pm CERN Time**
- Slack Channels of Interest
  - [#early-career-energy-frontier-coordination](#)
  - [#early-career-snowmass](#) (private, email for addition)
- Link to SEC+EF [Topical Group Liaisons](#)
- Listservs
  - [SNOWMASS-ENERGY-FRONTIER@FNAL.GOV](mailto:SNOWMASS-ENERGY-FRONTIER@FNAL.GOV)
  - [SNOWMASS-EARLY-CAREER-EF@FNAL.GOV](mailto:SNOWMASS-EARLY-CAREER-EF@FNAL.GOV)
- Volunteer to be a SEC EF Convenor [[Form Link](#)]
- Come and give a Special Topic Talk!

