

Overview of the Snowmass Process

(As I understand it... those with more experience should speak up!)

Jonathan Paley, NuSTEC Board Meeting, July 8, 2020

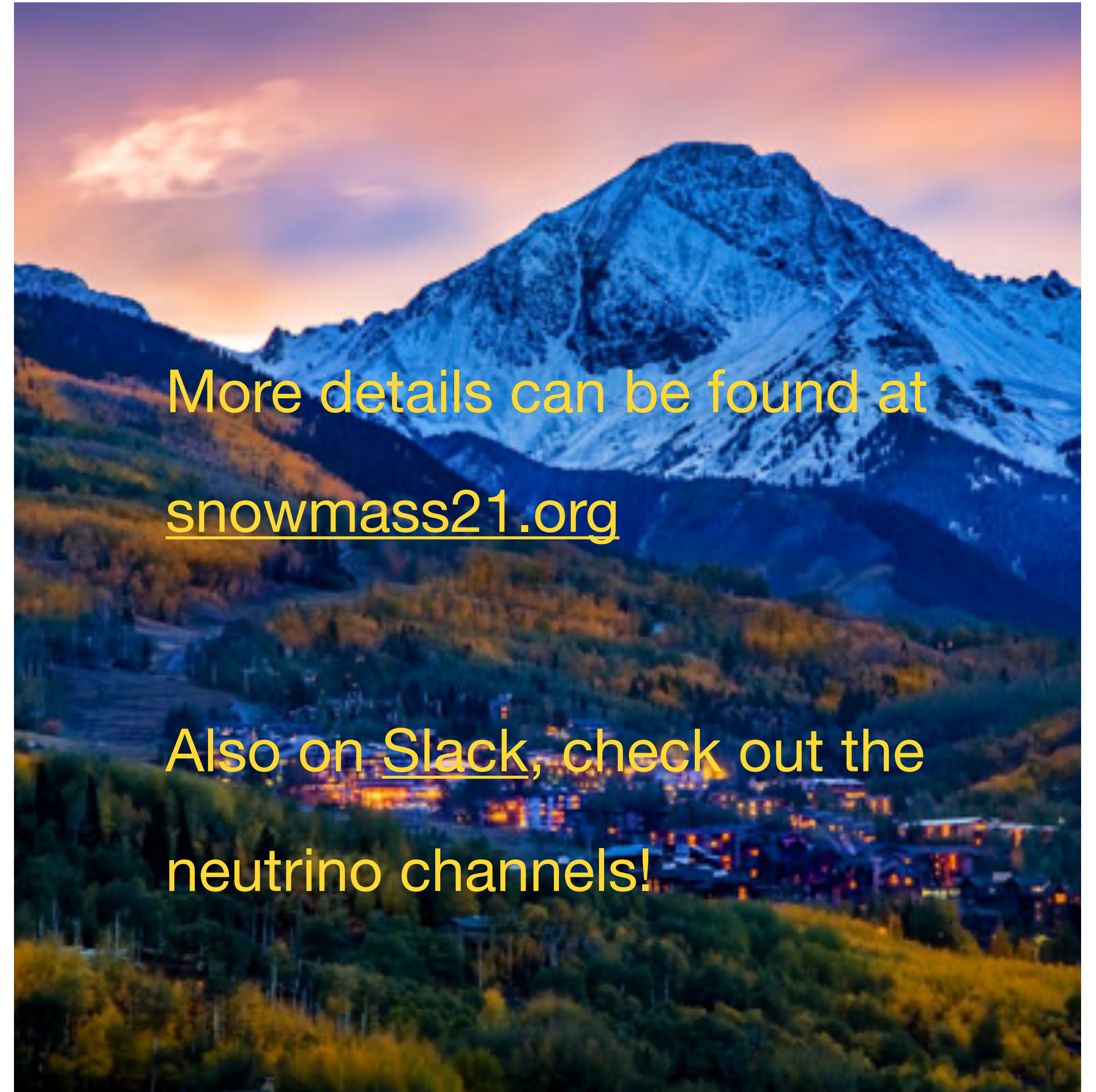
What is Snowmass?

- HEP community planning process.
- Organized by the Division of Particles and Fields (DPF) of the American Physical Society (APS).
- Opportunity for the HEP community to identify and document a vision for the future of the field in the US and its partners.
- Similar to European Strategy for Particle Physics.
- Culminates in a “summer study” meeting. Prior to 2013, this meeting took place in Snowmass, CO. The 2013 meeting took place in Minneapolis. The 2021 meeting will take place in Seattle (July 11-20).



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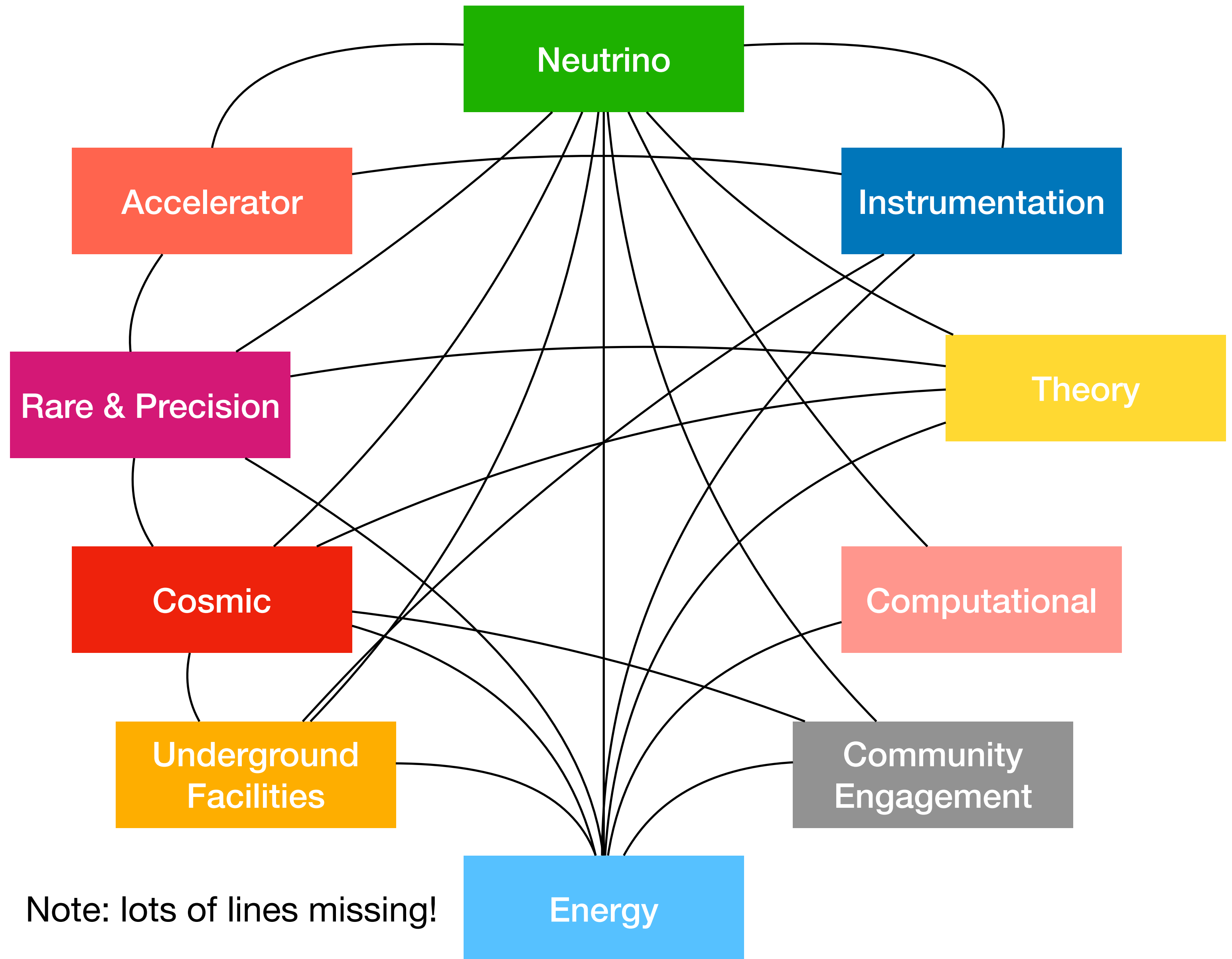


More details can be found at
snowmass21.org

Also on [Slack](#), check out the
neutrino channels!

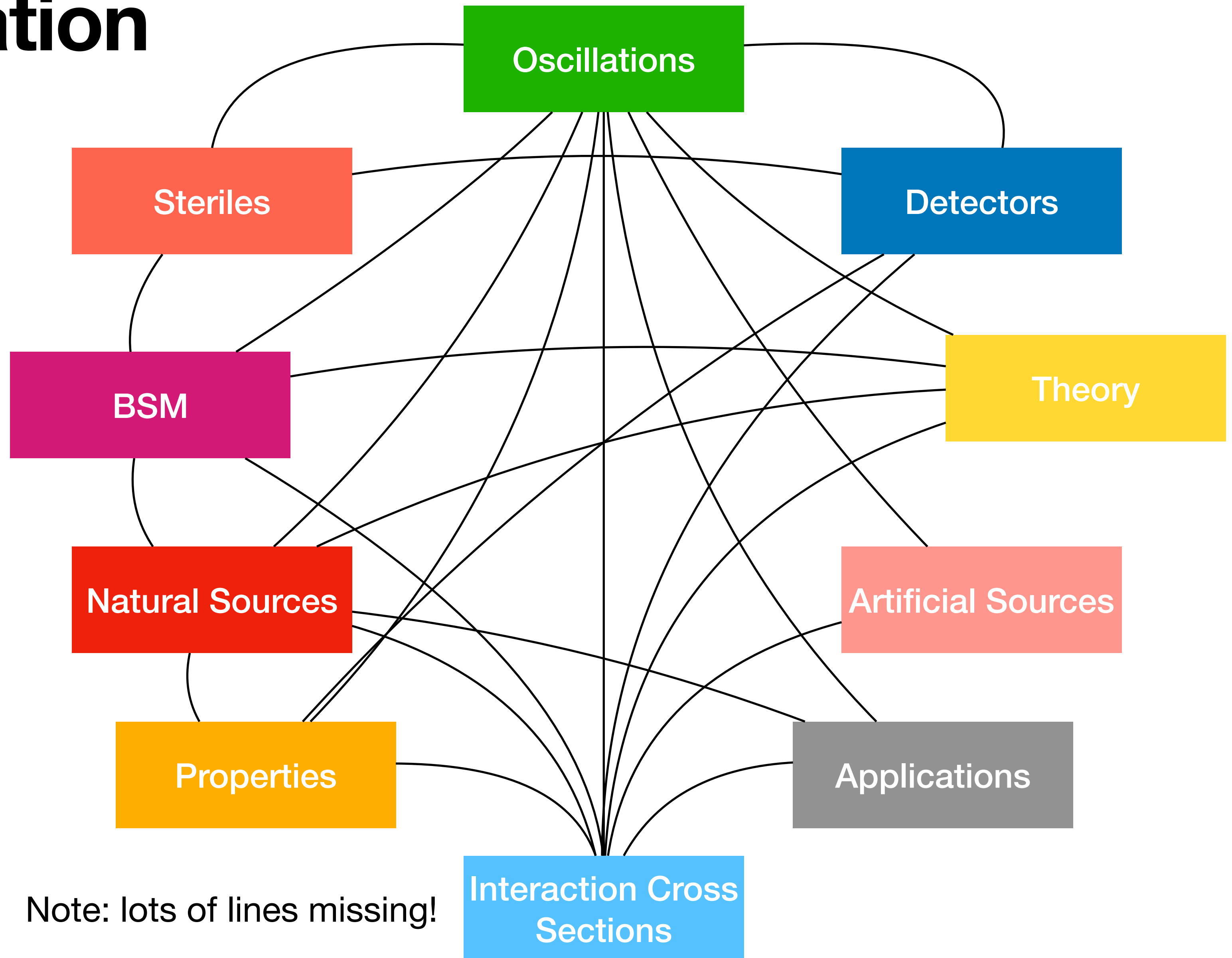
Organization

- Advisory Group, consisting of DPF Executive Committee, reps from related APS Divisions, and reps from the international community
- 10 Frontiers, each with ~3 conveners
- Liaisons identified between many frontiers.



Neutrino Organization

- 10 topical groups w/ in Neutrino
- Co-conveners for Cross Sections: Jonathan Asaadi, Baha Balantekin, Kendall Mahn, Jason Newby
- Co-conveners for Theory: André de Gouvêa, Irina Mocioiu, Saori Pastore, Louis Strigari





Important Dates

- Neutrino Frontier Town Hall
- August 31, 2020: deadline for Letters of Intent
- July 31, 2021: deadline for Contributed Papers



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Registration is required: please go to

https://docs.google.com/forms/d/e/1FAIpQLScaNeL-xm65OUvMNzY4q5tB1WLWsbYz2WPMfz7e5DeVGCSUpA/viewform?usp=sf_link

Deadline for registration: **July 6**

We are organizing the conversation around three main categories, and for each of these, the convener group has developed a few questions to spark discussion:

Physics goals and motivation

- How are the limitations of existing neutrino sources and detectors affecting our physics reach?
- What kinds of new physics searches should we prioritize, especially considering that there are no decisive hints regarding what lies beyond the standard model from other fundamental physics experiments?
- What can neutrino physics do for other fields of science and technology?

Theory and neutrinos

- What is the theory motivation to go beyond the current program?
- How can theorists best support the experimental program?

Structure of the program

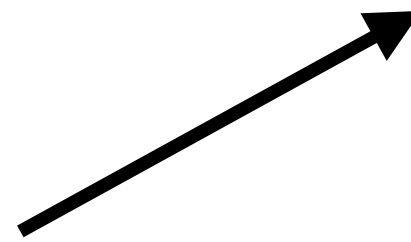
- How do we maintain the necessary breadth of physics, including smaller experiments, auxiliary measurements, and activities within larger projects?
- How can we ensure that experimental and theoretical efforts have enough resources to pursue questions of significant interest, even if those questions cross the boundaries of Frontiers or funding umbrellas?

We are inviting community members to sign up for 3-minute slots to make oral comments addressing any of these questions. We will accommodate as many as will fit in the time period. There will also be an “open mic” category for comments on any topic.



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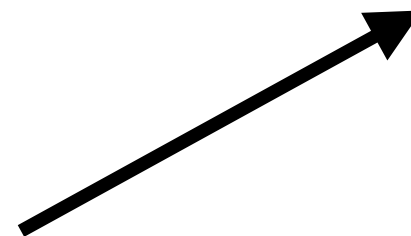
Today's meeting: who's doing what?

Opportunity to advertise and/or get involved in some of these efforts.



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Today's meeting: what, if any, role should NuSTEC play?