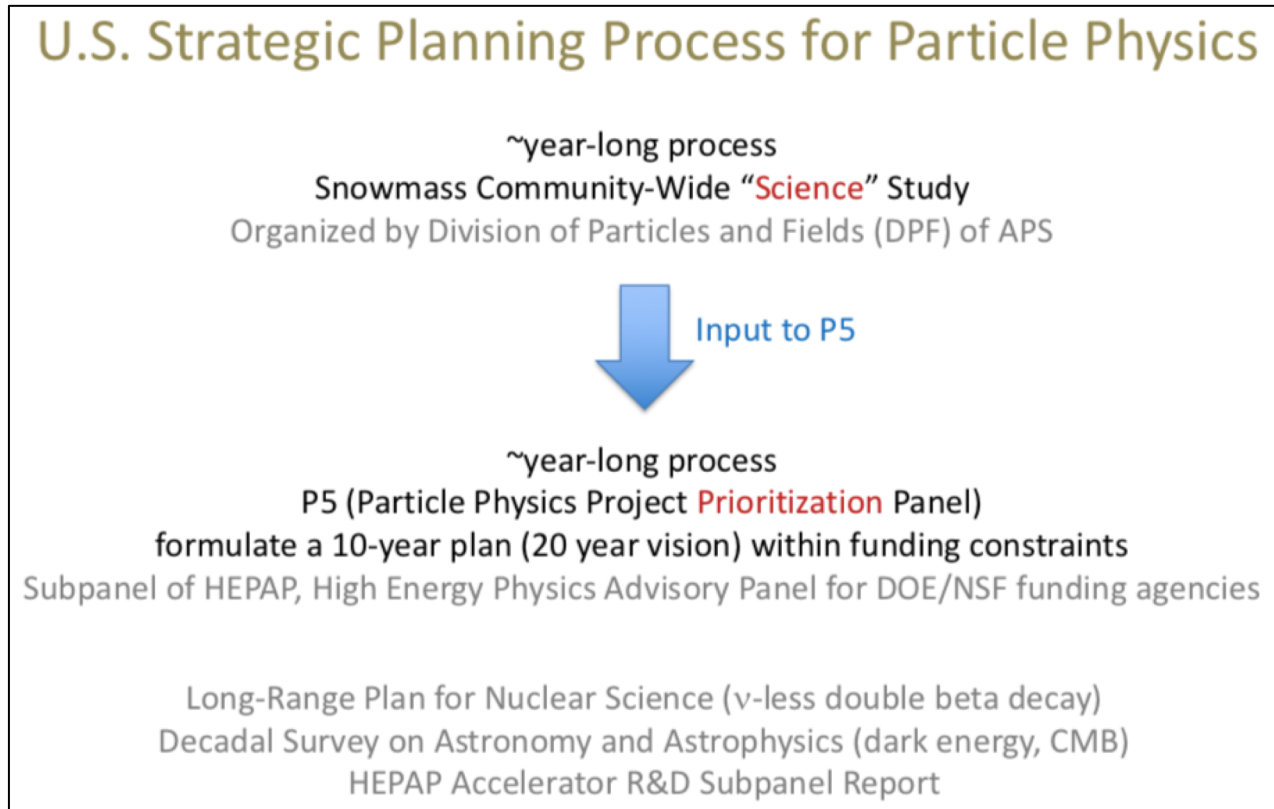


# Overall Snowmass Process



YKK talk at APS Town Hall meeting: see <https://indico.fnal.gov/event/23601/>

Important note: Snowmass is a **community** activity

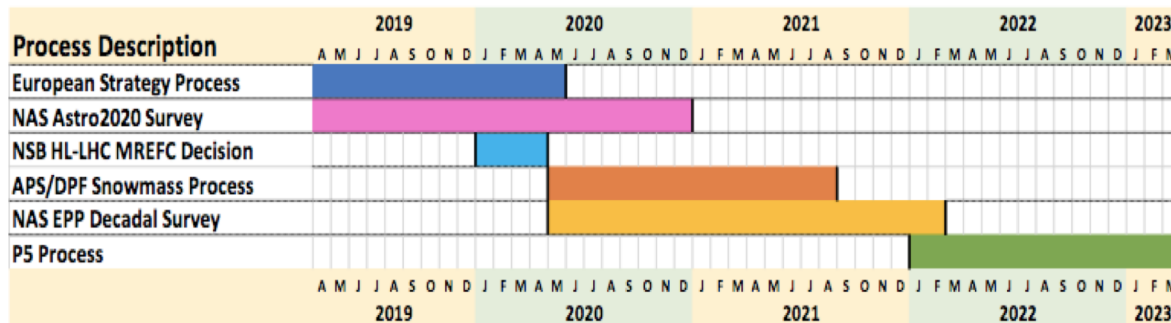
# Timeline

Young-Kee Kim [pre-Covid...]

## Possible Strategic Planning Timeline

- ▶ To provide timely input to the FY25 budget formulation, the next P5 report will be required by March 2023
- ▶ U.S. Community considering Snowmass process with major meeting occurring in summer 2021
- ▶ Potential timeline for the next NAS EPP Decadal Survey could be mid-2020 through early-2022
  - ▶ Overlap with Snowmass could enable synergy with Snowmass processes and delivery of report as P5 process begins

Time frame for planning?  
10 years and beyond...  
(P5: ~10 years)



Snowmass Final Report: Fall 2021

NAS (National Academy of Sciences) Decadal Survey Report: end 2021 or very early 2022

# Snowmass “Frontiers”

Frontier	Co-Conveners		
Energy Frontier	Meenakshi Narain	Brown University	meenakshi_narain@brown.edu
	Laura Reina	Florida State University	reina@hep.fsu.edu
	Alessandro Tricoli	Brookhaven National Laboratory	atricoli@bnl.gov
Frontiers in Neutrino Physics	Patrick Huber	Virginia Tech	pahuber@vt.edu
	Kate Scholberg	Duke University	schol@phy.duke.edu
	Elizabeth Worcester	Brookhaven National Laboratory	etw@bnl.gov
Frontiers in Rare Processes and Precision Measurements	Marina Artuso	Syracuse University	martuso@syr.edu
	Bob Bernstein	Fermi National Accelerator Laboratory	rhbob@fnal.gov
	Alexey Petrov	Wayne State University	apetrov@physics.wayne.edu
Cosmic Frontier	Aaron Chou	Fermi National Accelerator Laboratory	achou@fnal.gov
	Marcelle Soares Santos	Brandeis University	marcelle@brandeis.edu
	Tim Tait	University of California, Irvine	ttait@uci.edu
Theory Frontier	Nathanial Craig	University of California, Santa Barbara	ncraig@physics.ucsb.edu
	Csaba Csaki	Cornell University	csaki@cornell.edu
	Aida El-Khadra	University of Illinois, Urbana-Champaign	axk@illinois.edu
Accelerator Science and Technology Frontier	Steve Gourlay	Lawrence Berkeley National Laboratory	sagourlay@lbl.gov
	Tor Raubenheimer	SLAC National Accelerator Laboratory	tor@slac.stanford.edu
	Vladimir Shiltsev	Fermi National Accelerator Laboratory	shiltsev@fnal.gov
Instrumentation Frontier	Phil Barbeau	Duke University	psbarbeau@phy.duke.edu
	Petra Merkel	Fermi National Accelerator Laboratory	petra@fnal.gov
	Jinlong Zhang	Argonne National Laboratory	zhangjl@anl.gov
Computational Frontier	Steve Gottlieb	Indiana University	sg@indiana.edu
	Oliver Gutsche	Fermi National Accelerator Laboratory	gutsche@fnal.gov
	Ben Nachman	Lawrence Berkeley National Laboratory	bpnachman@lbl.gov
Underground Facilities and Infrastructure	Jeter Hall	SNOLAB	Jeter.Hall@snolab.ca
	Kevin Lesko	Lawrence Berkeley National Laboratory	ktlesko@lbl.gov
	John Orrell	Pacific Northwest National Laboratory	john.orrell@pnnl.gov
Community Involvement	Ketevi Assamagan	Brookhaven National Laboratory	ketevi@bnl.gov
	Breese Quinn	University of Mississippi	quinn@phy.olemiss.edu

# Neutrino Physics Frontier

- Topics relevant to the physics of neutrinos: **lots of overlaps!** YKK Town Hall talk

Topical Group	Co-Conveners			
Neutrino Oscillations	Peter Denton	Megan Friend	Mark Messier	Hiro Tanaka
Sterile Neutrinos	Georgia Karagiorgi	Bryce Littlejohn	Pedro Machado	Alex Sousa
Beyond the SM	Pilar Coloma	Lisa Koerner	Ian Shoemaker	Jae Yu
Neutrinos from Natural Sources	Yusuke Koshio	Gabriel Orebi Gann	Erin O'Sullivan	Irene Tamborra
Neutrino Properties	Carlo Giunti	Ben Jones	Lisa Kaufman	Diana Parno
Neutrino Cross Sections	Jonathan Asaadi	Baha Balantekin	Kendall Mahn	Jason Newby
Nuclear Safeguards and Other Applications	Nathaniel Bowden	Jon Link	Wei Wang	
Theory of Neutrino Physics	André de Gouvêa	Irina Mocioiu	Saori Pastore	Louis Strigari
Artificial Neutrino Sources	Laura Fields	Alysia Marino	Pedro Ochoa	Josh Spitz
Neutrino Detectors	Josh Klein	Ana Machado	Dave Schmitz	Raimund Strauss

Liaisons with other Frontiers: [ensure information transfer, fill in gaps]

- Computational Frontier: Alex Himmel
- Rare Processes and Precision Frontier: Bob Bernstein
- Accelerator Frontier: Laura Fields
- Energy Frontier: André de Gouvêa
- Cosmic Frontier: TBD, consulting with conveners

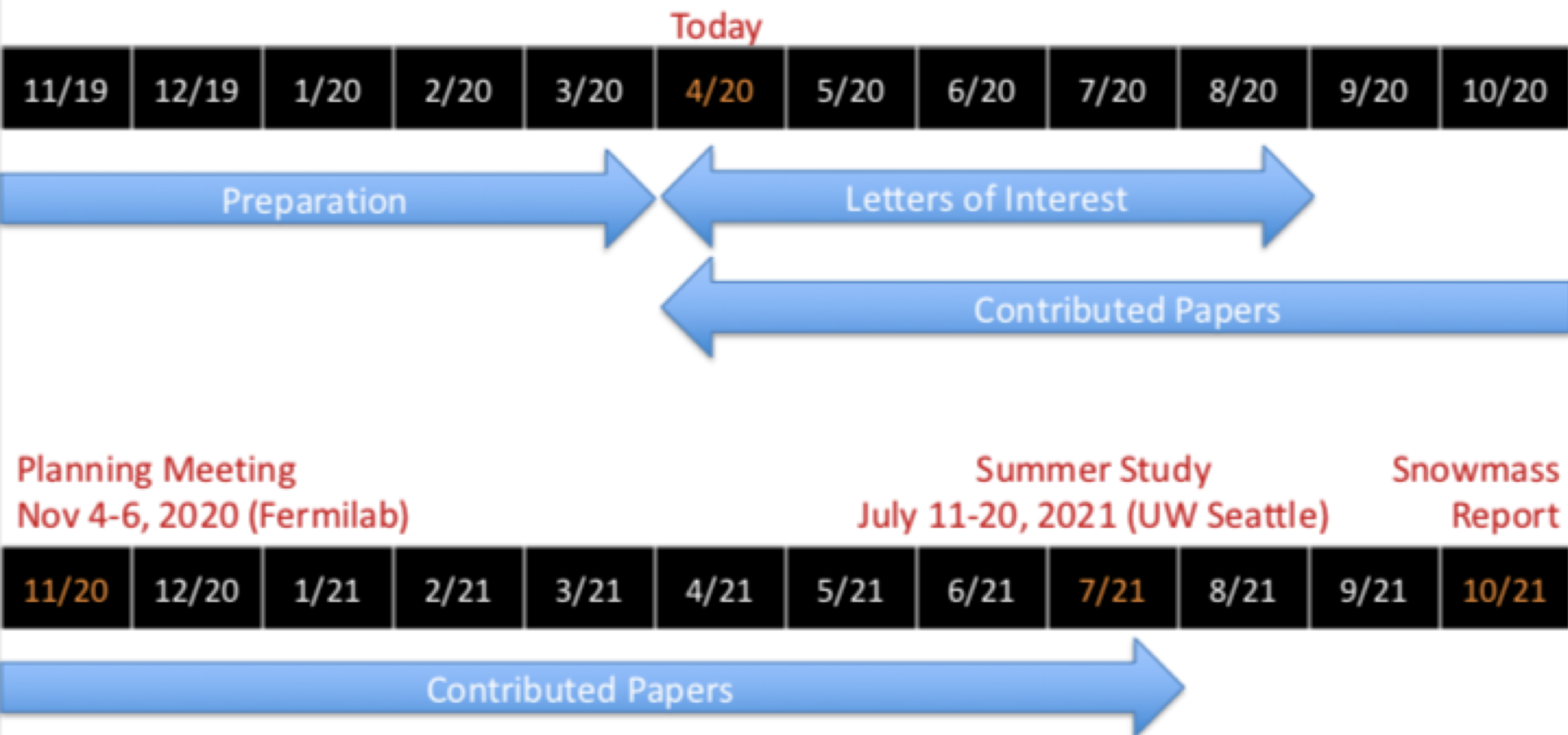
**Thank you all!**

# As topical group conveners, what is your job?

- monitor and solicit community contributions
- organize workshops/meetings, as appropriate (including joint ones)
- report regularly on activities in Neutrino Frontier venue
- optimize connections between other working groups and Frontiers
- write the relevant section in the eventual Snowmass Neutrino Frontier Document... output should be a synthesis of the input you receive

# Snowmass Timeline

We are ahead of the curve compared to Snowmass 2013

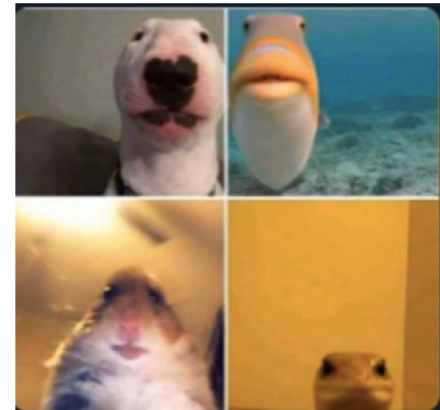


# Community Contribution

- Letters of Interest (submission : April 1, 2020 – August 31, 2020)
  - Allow conveners to see what proposals to expect and to encourage the community to begin studying them. Help conveners to prepare the Snowmass Planning Meeting (Nov. 4 - 6, 2020 at Fermilab).
  - Letters should give brief descriptions and cite the relevant papers to study.
  - Submission instructions: <https://snowmass21.org/loi>
  - Authors are encouraged to submit a full writeup as a contributed paper
- Contributed Papers (submission : April 1, 2020 – July 31, 2021)
  - Part of the Snowmass proceedings.
  - White papers on specific scientific areas, technical articles presenting new results on relevant physics topics, and reasoned expressions of physics priorities, including those related to community involvement.
  - These papers and discussions throughout the Snowmass process will help shape the long-term strategy of particle physics in the U.S. Contributed papers will remain part of the permanent record of Snowmass 2021.
  - Submission instructions: <https://snowmass21.org/submissions/>.

# Meetings

- Regular Zoom meetings of topical group conveners+ liaisons
  - ~bi-weekly, cycle through: Tue 6 pm, Wed 10 am, Thu 6 pm, Fri 9 am
  - will be in advance on Google calendar (? TBD) + Indico
  - please try to have at least one member from your group present
- Topical group convener meetings as you would like
- ~1 mini-workshop per topical group, some potentially joint with other frontiers (or each other)... please start thinking about what you would like to do
- 1 Neutrino Frontier workshop
  - Spring 2021 (Feb, March?)
  - will call for proposals to host in a few weeks





# Communications

- **Slack:** discussion
  - #neutrinos channel
  - topical group channels
  - others for specific topics if desired (e.g. #cevns)
  - private channels for conveners, if desired
- **Mailing lists:** announcements, not discussion
  - NEUTRINO-TOPICAL-CONVENERS (this group)
  - SNOWMASS-NEUTRINO-FRONTIER (community)
- **snowmass2021.org** “one stop shopping”... links to everything
  - you can ask for edit privileges (I think)
- **FNAL Indico** <https://indico.fnal.gov/category/1098/> for meetings (open) [logistical note: please update your account, or make one]
- **Google calendar**... not yet set up for neutrinos; to-do

Note: we may be getting some global instructions on communications

## Next tasks:

- write text for the wiki topical group pages based on your topics
- tag overlaps (not problematic! OK for more than one group to “own” something)
- consider what meetings you want to have (topic for next topical convener meeting)