# A quick reminder...

### Focus for Snowmass

- Define community goals in the next 10, 20, 60 years
- Where should the community focus R&D efforts?
- What questions do we want to answer within our lifetimes?
  - And how do we answer them?



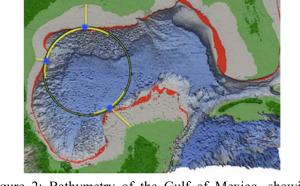


Figure 2: Bathymetry of the Gulf of Mexico, showing potential alignment of a 1,900 km circumference hadron

Collider in the Sea: Vision for a 500 TeV World Laboratory

e-collider 25 TeV  $\mu$ -collider 30 TeV

 $\mu$ -collider 14 TeV

Physics

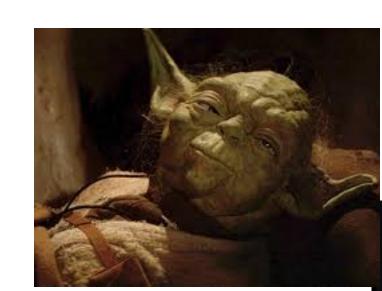
Potential

CLIC

FCC-ee ILC

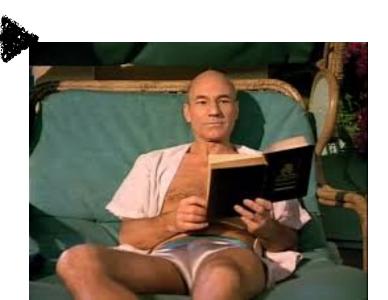
FCC-hh

 $\mu$ -collider 125





R&D attractiveness



## Planning

Monte Carlo Requests: Please answer the questionnaire

#### "Preparatory joint topical group sessions" - July 7 and July 8, 2020

- Submit abstracts for "short talks" or "offline flash talks"
- Focus is on the review of current activities to identify emerging topics and ideas which will be the focus points for the physics program of the Energy Frontier Abstract Submission: <a href="https://indico.fnal.gov/event/43959/abstracts/">https://indico.fnal.gov/event/43959/abstracts/</a>

Submission
Deadline
this Sunday!!

#### "Energy Frontier Workshop" - July 20-22, 2020

- https://indico.fnal.gov/event/43963
- Workshop to discuss "open questions" and "new ideas"
- Develop the focus questions which will define the strategy and activities of the Energy Frontier during Snowmass 2021

<sup>\*</sup> Please note this workshop has been rescheduled from the originally announced dates.

### EF02: Triple Higgs Coupling, Quartic, Quintic + more Higgs Friends





Friday Jun 26, 2020, 1:00 PM → 3:00 PM US/Eastern

<b>1:00 PM</b> → 1:05 PM	Introduction Speakers: Isobel Ojalvo (Princeton University (US)), Patrick Meade (Stony Brook University)	③ 5m 🔎 🕶
<b>1:10 PM</b> → 1:30 PM	di-Higgs Experimental Results and Projections Speaker: Caterina Vernieri (SLAC)	③20m
<b>1:30 PM</b> → 1:45 PM	Recent work for extended Higgs models  Speakers: Maxim Perelstein (Cornell University), Shinya Kanemura	③15m
<b>1:45 PM</b> → 1:55 PM	Triple Higgs and 2HDM Speaker: Sven Heinemeyer (IFT (CSIC, Madrid))	③10m
<b>1:55 PM</b> → 2:05 PM	The Higgs Trilinear Coupling and the Scale of New Physics  Speakers: Markus Luty (University of California Davis), Spencer Chang (New York University)	③10m
2:05 PM → 2:15 PM	Higgs Quartic at a Muon Collider  Speakers: Fabio Maltoni (Universite' catholique de Louvain), Mauro Chiesa	③10m
<b>2:15 PM</b> → 3:00 PM	Discussion!	③45m