

# DPF plans for U.S. contributions to European Strategic Plan

Young-Kee Kim

University of Chicago

On behalf of the DPF Executive Committee

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# A statement from DPF EC aligned with P5

Sent out to the DPF community TODAY (July 18, 2018)

Dear colleagues,

The European particle physics community is preparing its updated strategy. The formal opening of the process will begin with appointments of two groups by the CERN Council in September 2018: the European Strategy Group (ESG) will establish the updated draft of the strategy and the Physics Preparatory Group (PPG) will prepare the scientific contribution to the work of the ESG via the "Briefing Book", which is based on the input it gathers from the world-wide community. One representative from the Americas will serve on the PPG. The CERN Council aims to adopt the updated strategy in May 2020.

# A statement from DPF EC aligned with P5 (cont.)

At the 2017 DPF meeting at Fermilab there were presentations and a panel discussion covering the current status of the U.S. particle physics strategy and the plan for the updated strategy. The current U.S. program has been guided by the strategic plan laid out in the 2014 P5 report. The P5 plan for the next decade of U.S. particle physics was based on a year-long community-wide study, Snowmass 2013, organized by the DPF, and a nearly year-long P5 process for which the Snowmass study report was the primary input. The P5 plan has met success in the community, the agencies, and the stakeholders, and defines the U.S. program that is currently being executed. A consensus was reached at the DPF 2017 meeting that the right time to initiate the studies for an update to the strategy for the U.S. particle physics program would be sometime after the CERN Council has adopted European Strategy. The DPF is therefore considering 2020 and 2021 for the next Snowmass studies. Initial planning discussions are expected to take place at the April 2019 APS meeting in Denver.

# DPF White paper to the ESG

- DPF EC will make a call for ideas that would go into a white paper that comes from the DPF (1<sup>st</sup> message sent out TODAY)
  - “DPF is planning to submit a short white paper to the ESG group. We will be collecting input from the community in the August-September time frame for submission in December; more information will be forthcoming. Please send comments to [dpfstrategy@fnal.gov](mailto:dpfstrategy@fnal.gov).”
- Whitepaper: targeting up to 20 pages with 6 categories (5 science drivers + future accelerators), 2-3 pages each
  - Use of the Higgs boson as a tool for further inquiry
  - Investigation of the physics of neutrino mass
  - Investigation of the physics of dark matter
  - Investigation of the physics of dark energy and cosmic inflation
  - Exploration of new particles, interactions, and physics principles
  - Future accelerators

# DPF White paper to the ESG (cont.)

Time (2018)	Process
July	<ul style="list-style-type: none"><li>• Distribute a statement from DPF EC aligned to P5 (Today)</li><li>• Identify editors for the white paper: 2 per category (1 theorist + 1 experimentalist)</li></ul>
August – September	<ul style="list-style-type: none"><li>• Collect input from the DPF community (white paper) via email <a href="mailto:dpfstrategy@fnal.gov">dpfstrategy@fnal.gov</a></li></ul>
October	<ul style="list-style-type: none"><li>• Draft a white paper</li><li>• 6 categories; 2 editors / category</li></ul>
November – Mid December	<ul style="list-style-type: none"><li>• Circulate the DRAFT write paper / get feedback from the community (2-3 weeks)</li><li>• Finalize the write paper (~2 weeks)</li></ul>
Late December	<ul style="list-style-type: none"><li>• Submit the white paper to the ESG</li></ul>

# Snowmass studies

- The DPF is considering 2020 and 2021 for the next Snowmass studies (after the report of the European Strategic Plan).
- Initial planning discussions will take place at the April 2019 APS meeting in Denver.