



RPF summary

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White paper status

- ❑ All the topical groups are making good progress in collecting white paper with experimental outlook, "big ideas" and theoretical foundations. More details can be found at <https://indico.fnal.gov/event/53698/>
- ❑ Available at [RPF White Papers](#):
 - ❑ 7 general interest
 - ❑ 3 RPF1 (weak decays of b and c quarks)
 - ❑ 2 RPF2 (Weak decays of strange and light quarks)
 - ❑ 5 RPF3 (Fundamental physics in small experiments)
 - ❑ 4 RPF4 (Baryon and lepton number violation)
 - ❑ 2 RPF5 (Charged lepton flavor violation)
 - ❑ 3 RPF6 (Dark sector studies at low energies)
 - ❑ 2 RPF7 (Hadron spectroscopy)
- ❑ More are ready but not in the arXiV because of aftermath of Ukraine invasion by Russia

Topical group	Number of white papers expected	Status	Comments
TG1: beauty and charm	8+main facilities for b/c decays studies	Some of them ready/in arXiv	LHCb, BelleII waiting for author list resolution
TG2: light quarks	8	Done/Advanced	1 involves LHCb , all white paper should be available at the end of March
TG3	6-7	advanced	PIONEER experiment perhaps more suited for TG2
TG4			
TG5	8 white papers	Advanced status/submitted	
TG6	Many individual experiments- 3 big idea WP +1 experimental facilities	Big idea WP expected by April 15	Big idea whitepaper closely connected with TG report
TG7	10 (including 3 from GP experiments)	1 submitted to arXiv, most advanced	GP waiting for author list, TG conveners engaged in reviewing drafts

Frontier meeting

- ❑ May 16-19 in Cincinnati
- ❑ More details at <https://indico.fnal.gov/event/51844/>
- ❑ The purpose of the meeting is to collectively assess the physics impact, feasibility, and priority of the numerous physics initiatives currently being studied. The goal is to produce and prioritize a list of measurements with the highest prospects for uncovering New Physics over the next ten years.
- ❑ Combination of plenary talks on “big ideas” and parallel sessions to review status of the frontier report
- ❑ More details coming soon

Preparation for CSS in Seattle

- ❑ 1 colloquium/TG
- ❑ Some combined sessions need sign-off of other frontiers please comment at [XF Meeting Discussion and Planning](#)