

RF1: Weak decays of b and c quarks

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Rare and Precision Frontier Topical Convener Meeting

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Status

- We have paused all activities since mid-January 2021.
- The two of us resumed Snowmass work today. We will now focus on organizing whitepapers and start writing the RF1 report.

Tentative outline of report

1. General introduction about heavy flavor
 - a. Summary of the priorities and the big questions
2. Focus on main physics areas
 - a. High precision in CKM unitarity tests
 - b. Other sources of CP violation (charm, baryons, etc)
 - c. Lepton-flavor violation and lepton-flavor universality
 - d. Rare decays

(We plan to solicit whitepapers on a-d, need to identify editors)

Workshops

- Sept 28-29, 2020 “Lepton flavor violation and lepton universality violation in meson and baryon decays” (with RF5) <https://indico.fnal.gov/event/44442/>
- Jan 11-12, 2021 “Theory meets experiment on $|V_{ub}|$ and $|V_{cb}|$ ” (with TF05 and TF06), <https://indico.fnal.gov/event/46246/>
- Prior to the Snowmass pause, we were considering additional similar workshops on: CPV in b decays, Charm mixing and CPV, Rare b and c decays
- Now instead perhaps one workshop on whitepaper writing, after the editors have been identified?