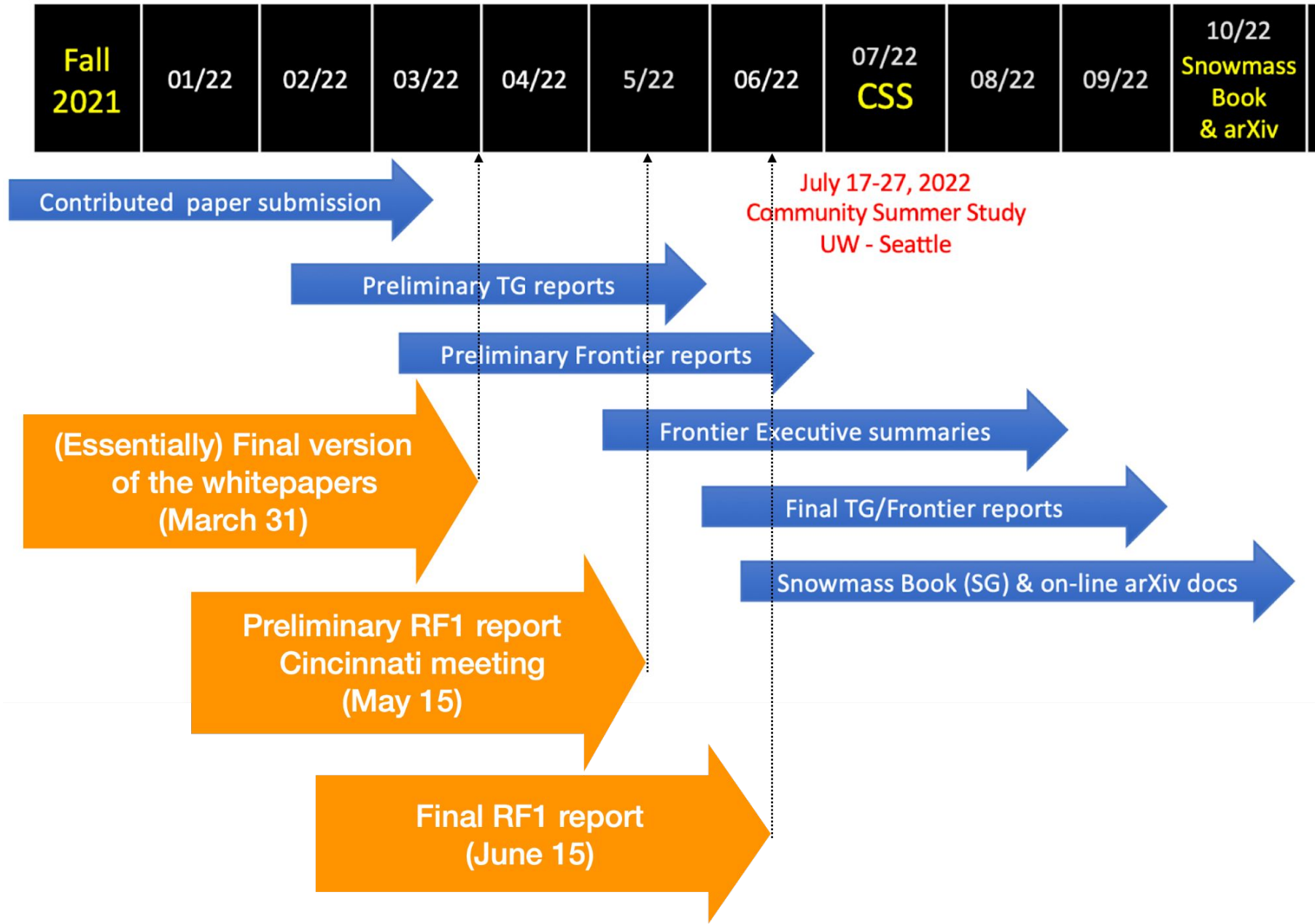


# RF1 Overview Whitepapers

Topic	Editor 1 (Experiment)	Editor 2 (Theory)
High precision in CKM unitarity tests in b and c decays	Stephane Monteil (Clermont-Ferrand U.)	Alexander Lenz (Siegen U.)
Searches for other sources of CP violation in b and c decays	Diego Tonelli (INFN Trieste)	Yuval Grossman (Cornell U.)
Lepton-flavor violation and lepton-flavor-universality violation in b and c decays	Patrick Koppenburg (Nikhef)	Gudrun Hiller (TU Dortmund)
Rare decays of b and c hadrons	Flavio Archilli (Heidelberg U.)	Wolfgang Altmannshofer (UC Santa Cruz)

The whitepapers should give a concise overview of the physics discovery potential and questions that can be addressed (from both theory and experiments point of views).

# Snowmass Timelines



# LOIs received

USQCD	Numerical Lattice Gauge Theory
T. S. M. Ho et al.	Testing Lepton Flavor Universality at Z pole
Y. Duan et al.	Searching for $B_s \rightarrow \phi \nu \nu$ and other $b \rightarrow s \nu \nu$ processes
Fermilab Lattice, MILC, TUMQCD	Lattice-QCD Determinations of Quark Masses and the Strong Coupling $\alpha_s$
LBNF	Precision Measurements with (Anti)Neutrinos at LBNF
F. Bernlochner et al.	Future analyses of semileptonic decays with Hammer
T. Zheng and M. Ruan	Exploring new physics with $B_c \rightarrow \tau \nu \tau$
S. Roy, R. Sinha, N. Deshpande	CP-violation study in b-baryon hadronic decays using SU(3) symmetry
Fermilab Lattice, MILC	Precision Lattice QCD in Support of BSM Searches
RBC and UKQCD	LOI for RF1: Weak decays of b and c quarks
B. Dey et al.	High precision determinations of $ V_{xb} $ from a close theory-experiment collaboration
J. V. Bennett, A. Datta et al.	CP Asymmetry Measurements with Charmed Baryons
D. Mitzel et al.	LOI on Rare Charm Decays
A. Lenz et al.	High Precision SM Predictions for Quark Flavor Observables
Belle II	B Physics at Belle II
Belle II	Charm Physics at Belle II
HFLAV	Decays of Heavy Flavors Beauty, Charm, and Tau
B. Bhattacharya and A. Datta	Triple-Product Asymmetries
R. Bause et al.	Lepton universality and lepton flavor conservation tests with dineutrino modes
BINP SCTF	Precision experiments at Super Charm-Tau Factory
F. Dettori et al.	Novel EFT connections between K and B physics
N. Chanon et al.	CPT-Symmetry Studies Involving Quarks
F. Martinez Vidal, N. Neri	Direct measurement of short-lived particle dipole moments at the LHC
A. Datta et al.	Light Mediators and Flavor Anomalies
STCF	Physics Potential of a Super tau-Charm Facility
A. Lytle	Precision theory inputs for $ V_{cb} $ and LFUV observables
T. DeGrand, W. Jay et al.	Lattice-QCD studies of inclusive B-meson decays
W. Altmannshofer	Rare b Decays as Probes of New Physics
LHCb	Letter of Interest from the US LHCb Group