

Snowmass 2021 Workshop

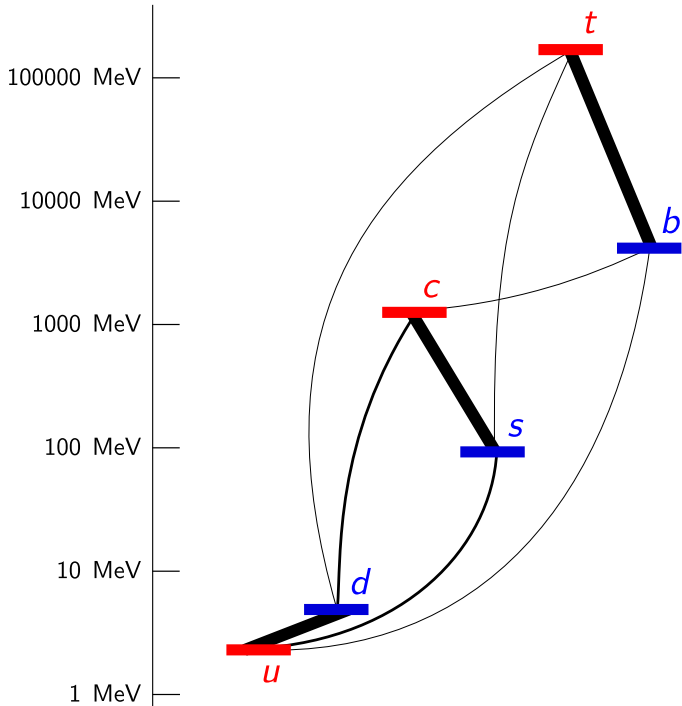
Theory meets experiment on $|V_{ub}|$ and $|V_{cb}|$

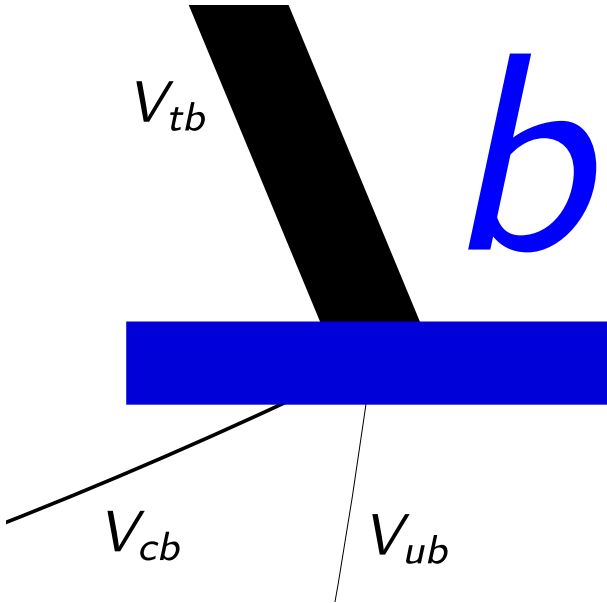
RF01 - Weak decays of b and c quarks

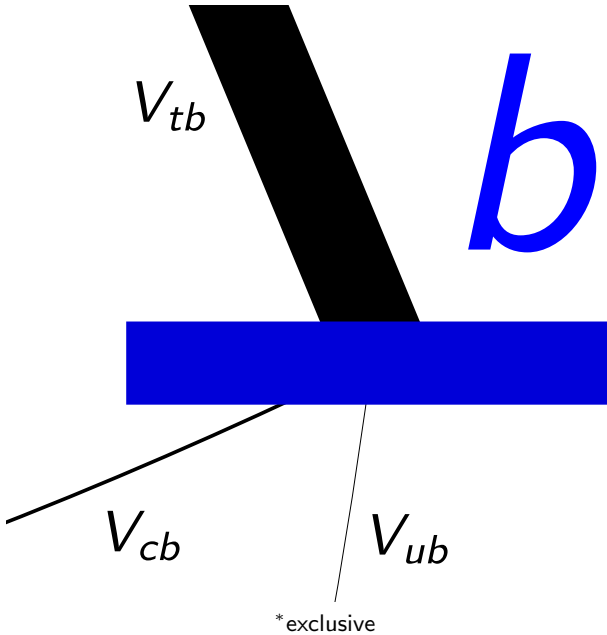
TF05 - Lattice gauge theory

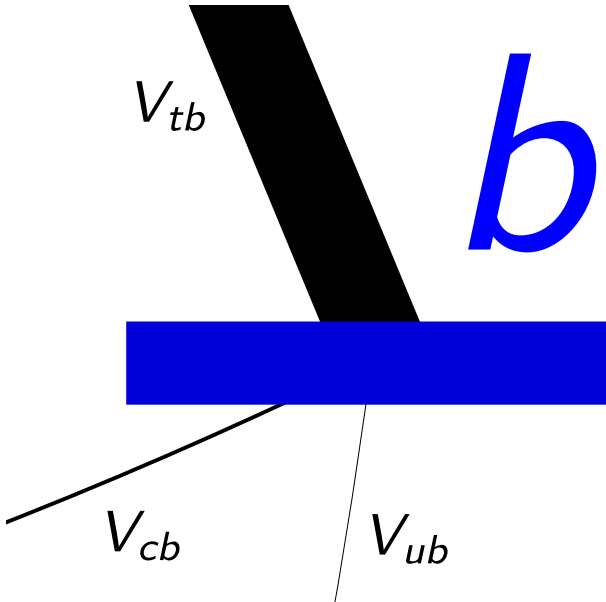
TF06 - Theory techniques for precision physics

January 11-12, 2021









*inclusive

Goals of this workshop

- Discuss the prospects and requirements for high-precision measurements of $b \rightarrow u$ and $b \rightarrow c$ transitions using current, upgraded, and future experiments, and for their theoretical description with matching precision.
- Make the community aware of new ideas: new theoretical approaches, new measurements and analysis strategies, ...
- Convey the importance of flavor physics, and the importance of a close collaboration between experimentalist and theorists.
- Organize Snowmass contributed papers, aka whitepapers.

Whitepaper planning

- We anticipate some whitepapers submitted by individual experimental collaborations or individual groups of theorists.
- In addition, we are thinking about organizing a few whitepapers on key physics topics in which multiple experiments and theory are discussed together. These whitepapers would compare the capabilities of different experiments and highlight synergies. One possible topic could be V_{ub} and V_{cb} .

Please start thinking about this. We will discuss it at the end of the second day of this workshop.

Some instructions

- We have allotted 10 minutes for discussion after most talks, plus additional 40 minutes at the end of each day. We encourage everyone to participate!
- We hope to keep it informal and lively. Feel free to ask questions at any time. If you like, turn on your camera when you speak.
- The meeting will be recorded and the recording will be uploaded to the Fermilab DocDB web page.
- Speakers: please upload your slides to Indico (or send them to me) before the start of the session.

Enjoy the workshop!