

MITP report “Challenges in semileptonic B decays”

Paolo Gambino, Andreas Kronfeld,
Marcello Rotondo, Christoph Schwanda (eds.)

Why?

- A lot of interesting things came out in the talks/discussions which should be documented (for non-attendants, students, ...)
- Try to form a consensus within our community, points of disagreement should be spelled out
- Give a long term strategy for the field
- Reference (“form factor dictionary”)
- Make up for the aborted attempt of a report from the last workshop
- Nobody is forced to contribute, but also open to people who could not attend

Format

- Report of this one week workshop, not a review (no need to repeat work that has already been done)
- About 20-30 pages
- Outline – 4 chapters following the workshop format ($b \rightarrow c, u$ excl, incl), 5th chapter for purely leptonic
- We plan to submit it to a journal provided it is of high enough quality

Timeline

- By the summer 2018

Start: Apr-11 (Wed)

Draft 0: May 14 (Mon)

Draft 1: Jul 16 (Mon)

Done: Sep 15 (Sat)



Tentative outline

- Heavy to heavy exclusive
 - Vera Luth, Concezio Bozzi, Christine Davies, Martin Jung, Stefan Schacht, Enrico Lunghi*, *Greg CIEZAREK** (interface exp/th), Zoltan Ligeti (D**), Weonjong Lee (proofreading)
 - Heavy to light exclusive
 - Aida El-Khadra, Stefan Meinel, Alexander Khodjamirian*, Gil Paz, Aoife Bharucha, *William SUTCLIFFE*, *Marta Calvi*
 - Heavy to light inclusive
 - Gil Paz, Paolo Gambino*, Florian Bernlochner (tbc), Lu Cao, Marcello Rotondo
 - Heavy to heavy inclusive
 - Christoph Schwanda*, Thomas Mannel, Shoji Hashimoto (tbc)
 - Leptonic etc.
 - Andreas Kronfeld
- * = coordinator