

Inclusive Vub - list of questions

- what are the "ultimate" systematic uncertainties which can be achieved at the B factories? What are the limiting factors in the evaluation of systematics due to the detector, the analysis method (e.g. mES fits), signal knowledge, background knowledge? Are there any uncertainties which have been overlooked in the past (e.g. D^{**} composition and form factors)? Are there any improvements foreseen from current and future experiments?
- How important is it to push the experimental measurements farther into the allowed $b \rightarrow c$ region? Do we understand the experimental uncertainties in doing so?
- What is the uncertainty on ratios of decay widths for different cuts in the phase space? Can we check the theoretical calculations by measuring these ratios experimentally?
- What is the optimal way to combine all data from different kinematic regions (shape function, OPE region, different cuts)?

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- Should global fits be performed in other schemes/frameworks?
- What is the optimal way to determine the shape function with reliable uncertainties?
- How can subleading shape function effects be reliably estimated? What are the uncertainties on extracting the shape function from nonlocal (at the b scale) physics?
- What are the other irreducible theoretical roadblocks?
- What other theoretical input is required? (i.e. complete order α_s^2 differential spectrum - others?)
- How do we address the issue of Weak Annihilation? What measurements are needed?