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Tera-Z at FCCee: a b physics factory for the future

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High statistics studies of the b quark have provided essential information on the standard model. Studies of CP violation in the b sector have indicated a need for beyond-the-standard model sources of CP violation, and studies of rare b decays have provided both constraints on new physics models and now tantalizing hints of beyond-the-standard-model lepton flavor violation. LHCb and Belle-2 will continue this program. Beyond these, the Tera-Z running at FCCee will provide samples of 5×10^{12} b's to allow continued higher-precision studies of the b quark. In addition, Tera-Z will extend the precision on measurements on the tau lepton.

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Do you describe your self as early career?

Please add details of experiment/project that this abstract corresponds to?

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