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The e+e- perspective on the state of heavy flavor physics
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Beyond the beautiful confirmation of the CKM model of three-generation quark flavor mixing and CP violation in weak interactions, the B-factories have left a legacy of precision measurements involving heavy quark and lepton flavors. While there are a few hints, these measurements have not yet revealed any evidence for physics beyond the Standard Model. Proposed future e+e- B-factories will be capable of accumulating data samples roughly 100 times those of the existing B-factories, allowing measurements sensitive to effects predicted by many Standard Model extensions. In this talk I will review the status of existing B-factories measurements, concentrating on those most sensitive to physics beyond the Standard Model. I will also discuss the potential physics reach of proposed next-generation e+e- heavy flavor factories, and their relevance to HEP at the dawn of the LHC era.