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Abstract for an Invited Paper for the APR12 Meeting of the American Physical Society

Results from BaBar¹ YURY KOLOMENSKY, UC Berkeley/LBNL

We describe the most recent results from the BaBar experiment, focusing on direct and indirect searches for new physics effects. We will discuss measurements of rates and CP-violating asymmetries in rare decays of B mesons, search for CP violation in τ -lepton decays, and direct searches for low-mass dark sector and Higgs boson candidates. These measurements are unique to the B-factories and are complementary in their new physics sensitivity to direct searches at the LHC.

 $^1 \mathrm{On}$ Behalf of the BaBar Collaboration