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## Combined Measurement of the CP Violating Angle $\beta$ by the BaBar and Belle Experiments

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We present a recent joint measurement of the CP violating angle  $\beta$  using 1.1 inverse attobarns of data collected by the BaBar and Belle experiments. This analysis is based on a time-dependent Dalitz plot analysis of  $B\to D^*h^0$  with  $D\to K_S^0\pi^+\pi^-$  decays. These decays provide experimental access to  $\cos(2\beta)$  as well as  $\sin(2\beta)$ , and can therefore resolve an ambiguity in the determination of the apex of the CKM Unitarity Triangle. As part of the analysis, a full Dalitz plot amplitude analysis of  $D\to K_S^0\pi^+\pi^-$  is performed on a high-statistics charm data set. We report the first evidence for  $\cos(2\beta)$ >0, an observation of CP violation, and the exclusion of the second solution of the CKM Unitarity Triangle of  $\beta=68.1\pm0.7$  degrees at a significance of 7.3 standard deviations.

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