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Study of CP violation effects in the charmless hadronic decay $B \rightarrow K_s \pi^+ \pi^0$

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We report a Dalitz plot analysis of the charmless hadronic decays of charged B mesons to the final state $K_s \pi^+ \pi^0$ using the full BaBar dataset of 471 million $B\bar{B}$ events collected at the $\Upsilon(4S)$ resonance. We observe an excess of signal events and measure the branching fractions and CP asymmetries, for the different resonant decay modes and inclusively.

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