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Measurement of of the Time-Dependent CP asymmetries in $B^0 \to K_S K_S K_S$ SIMON SITT, Univ. Paris VI et VII, BABAR COLLABORATION — We present a measurement of the time-dependent CP asymmetry in the channel $B^0 \to K_S K_S K_S$ using the full $\Upsilon(4S)$ dataset of the BABAR experiment corresponding to 465 million $B\bar{B}$ pair events. This mode is of particular interest, as it is a theoretically clean penguin mode and potentially sensitive to new physics effects. We use an extended likelihood fit to determine the S and C parameters of the CP asymmetry simultaneously in the modes $B^0 \to K_S(\pi^+\pi^-)K_S(\pi^+\pi^-)K_S(\pi^+\pi^-)$ and $B^0 \to K_S(\pi^+\pi^-)K_S(\pi^+\pi^-)K_S(\pi^0\pi^0)$.

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