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Initial-state-radiation production of Ds Mesons and high precision measurements of Ds1(2536) at Babar

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A search for charmonium and other new states is performed in a study of exclusive initial-state-radiation production of $D_s+D_s^-$, $D_s+D_s^+$, and $D_s+D_s^-$ events from electron-positron annihilations at a center-of-mass energy of 10.58 GeV. The data sample corresponds to an integrated luminosity of 525 fb⁻¹ recorded by the BaBar experiment at the PEP-II storage ring. We also study the decay width and the mass of the Ds1(2536) meson with high precision via the decay channel $D_{s1}(2536) \rightarrow D^+ K_0^0$ using 384 fb⁻¹ of data recorded by the BABAR experiment.

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