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New Measurements of Hyperon Production From Charmonium States

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Hyperon production in e+e- annihilation provides a clean laboratory for the production of baryons and strangeness in hadronization, and can provide insight into the structure of different hyperons by comparing their production rates. Using 52 pb-1, 805 pb-1, and 586 pb-1 of e+e- annihilation data taken at the psi(2S), psi(3770), and psi(4160) resonances, respectively, with the CLEO-c detector, we measure for the first time the inclusive decays of these charmonium states to the Lambda0, Sigma+, Sigma0, Cacade-, Cascade0, Omegahyperons. The implications of these measurements on hadronization at these energies and on the structure of these hyperons will be discussed.

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