Abstract Submitted for the APR05 Meeting of The American Physical Society

Observation of hc, the 1p1 Resonance of Charmonium SEAN DOBBS, Northwestern University, CLEO COLLABORATION — At CLEO 6 pb⁻¹ of e^+e^- data have been taken at the $\psi'(3S1)$ resonance of charmonium. These data have been analyzed to search for h_c , the singlet P state of charmonium in the reaction $\psi' \to \pi^0 h_c, h_c \to \gamma \eta_c$, both inclusively, and in the exclusive decay of η_c into six prominent channels. The h_c is clearly observed in both inclusive and exclusive measurements. Results for the mass of h_c and the product branching ratio $B(\psi' \to \pi^0 h_c) \times B(h_c \to \gamma \eta_c)$ will be presented.

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