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Tevatron Combination and BEH Properties

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The Tevatron combination of searches for BEH boson and studies of its properties will be presented. The searches use up to 10 fb-1 of Tevatron collider Run II data. We observe a significant excess of events in the mass range between 115 and 140 GeV/c2. The local significance corresponds to 3.1 Gaussian standard deviations at the mass of 125 GeV/c2. Furthermore, we separately combine searches for BEH boson decaying to bbbar, tau pairs, W pairs, and photon pairs. The observed signal strengths in all channels are consistent with the expectation for the coupling of a SM Scalar boson of 125 GeV/c2.

Auteur principal: YAO, Wei-Ming (LBL USA)

Orateur: YAO, Wei-Ming (LBL USA)

Classification de Session: The SM Scalar boson

Classification de thématique: Experiment