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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 $b\bar{b}$, 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.

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Classification de Session: The SM Scalar boson

Classification de thématique: Experiment