

Observation of a resonant structure near the $D_s+D_s^-$ threshold at LHCb

Tuesday, August 9, 2022 3:00 PM (15 minutes)

A near-threshold peaking structure, dubbed X(3960), is observed in the $D_s+D_s^-$ mass spectrum with significance greater than 12 standard deviations, using proton-proton collision data collected with the LHCb detector at centre-of-mass energies of 7, 8 and 13 TeV. Its quantum numbers is measured to be $J^{PC}=0^{++}$ with the amplitude analysis. It may be a candidate with the quark content: $c\bar{c}s\bar{s}$ candidate.

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Session Classification: Parallel Session I (2): Hadron and Flavor Physics

Track Classification: 强子物理与味物理