Contribution ID: **189** Type: **Plenary talk**

Stable Tetraquarks and Their Observation

Thursday 11 January 2018 11:25 (35 minutes)

Results of investigations into the possibility of stable tetraquarks using both HQET and Lattice QCD calculations are presented. The existence of some stable tetraquarks containing heavy quarks is found. For such tetraquarks, the opportunities for observation at the LHC is explored. In particular, if a $bb\overline{b}\overline{b}$ tetraquark exists below $\eta_b\eta_b$ threshold, it would be narrow and would be observable in the $\Upsilon\Upsilon^*$ decay mode.

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Session Classification: Plenary session

Track Classification: Hadron Structure