

25th anniversary of JINR in ATLAS



Contribution ID: 3

Type: not specified

Search for pentaquark and tetraquark states in B-hadron decays at the ATLAS experiment

The Lambda-b baryon and B-meson candidates produced in 7-8TeV pp-collisions at ATLAS experiment and decaying into J/psi plus 2 hadrons are analysed.

The analysis is focused on studying the decays via tetraquark (X-4200) and pentaquark (Pc-4380, Pc-4450) states previously discovered by LHCb and BELLE experiments.

ATLAS Run-I data also suggest hints for the existence of some new multiquark states in B-hadron decays to be examined in Run-II data.

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