



Contribution ID: 142

Type: **2.Parallel session talk**

Beauty baryon decays at LHCb

Thursday, 26 September 2024 12:05 (20 minutes)

The LHCb experiment collected the world's largest sample of charmed hadrons in proton-proton collisions during LHC Run 1 and Run 2. With this data set, LHCb is offering an unprecedented opportunity to enhance our understanding of these particles through searching for new decay channels [1], measurement of b-baryon properties [2], measurement of the mass and production [3]. This presentation will discuss recent results based on beauty baryon decays at centre-of-mass energies of 7, 8 and 13TeV.

[1] R. Aaij et al. (LHCb Collaboration), J. High Energy Phys. 07 (2024) 140

[2] R. Aaij et al. (LHCb Collaboration), arXiv:2406.12111

[3] R. Aaij et al. (LHCb Collaboration), Eur. Phys. J. C 84, 237 (2024)

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Session Classification: Parallel 2: Hadrons and related high-energy physics

Track Classification: Hadrons and related high-energy physics