

The $\Lambda_b \rightarrow J/\psi K^- p$ and related reactions showing signals for hidden charm states with and without strangeness

Monday, 6 June 2016 17:15 (0:20)

Collaboration

Abstract content

I shall report on recent developments of different reactions: $\Lambda_b \rightarrow J/\psi K^- p$, $\Lambda_b \rightarrow J/\psi \pi^- p$, $\Lambda_b \rightarrow J/\psi \eta \Lambda$, $\Lambda_b \rightarrow J/\psi K \Lambda$ and $\Xi_b \rightarrow J/\psi K \Lambda$, showing that the LHCb results for the first two reactions are consistent with previous predictions of hidden charm molecular states, and then making predictions for the observation with the other reactions of hidden states with strangeness, also predicted before. The content of the presentation is based on the papers [1-6].

- [1] L. Roca, J. Nieves and E. Oset, Phys. Rev. D 92, 094003 (2015)
- [2] L. Roca and E. Oset, arXiv:1602.06791 [hep-ph]
- [3] J. X. Lu, E. Wang, J. J. Xie, L. S. Geng and E. Oset, arXiv:1601.00075 [hep-ph]
- [4] E. Wang, H. X. Chen, L. S. Geng, D. M. Li and E. Oset, arXiv:1512.01959 [hep-ph]
- [5] H. X. Chen, L. S. Geng, W. H. Liang, E. Oset, E. Wang and J. J. Xie, arXiv:1510.01803 [hep-ph]
- [6] A. Feijoo, V. K. Magas, A. Ramos and E. Oset, arXiv:1512.08152 [hep-ph]

Primary author(s) : OSET, Eulogio (University of Valencia)

Presenter(s) : OSET, Eulogio (University of Valencia)

Session Classification : Parallel Session A6