

Study of the heavy pentaquark states

Tuesday, 9 March 2021 14:20 (20 minutes)

In this talk, we talk about our investigation on the heavy pentaquark states, found in the LHCb collaboration. With the coupled channel approach, and combined with the heavy quark spin symmetry and local hidden gauge symmetry, we study the coupled channel interactions of $\bar{D}^{(*)}\Sigma_c^{(*)}$ and $\bar{D}^{(*)}\Xi_c^{(*)'}$, where three P_c states and $P_{cs}(4459)$ were dynamically produced, respectively. Thus, we conclude that they are bound states of certain channel (molecular states).

Presenter: XIAO, Chu-Wen (School of Physics and Electronics, Central South University, Changsha 410083, China)