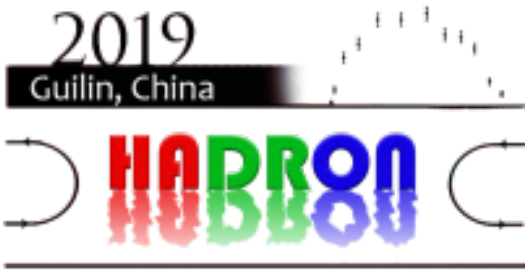

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Strong decay model \bar{K}\Xi of \Omega(2012) in \bar{K}\Xi(1530) and \eta\Omega molecular scenario

Tuesday, 20 August 2019 14:45 (20 minutes)

We study the $\bar{K}\Xi$ decay mode of the newly observed $\Omega(2012)$ assuming that the $\Omega(2012)$ is a dynamically generated state with spin-parity $J^P = 3/2^-$ from the coupled channel S-wave interactions of $\bar{K}\Xi(1530)$ and $\eta\Omega$. In addition we also calculate its three-body decay width into $K\pi\Xi$. It is shown that the so-obtained total decay width is in fair agreement with the experimental data. We compare our results with those of other recent studies and highlight differences among them.

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