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The Ξ_c and Ξ_b excited states generated from meson-baryons interaction in coupled channels

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Many Ξ_c and Ξ_b resonances have been observed during past few of years. This works focus on studying several Ξ_c and Ξ_b dynamically generated states from meson-baryon interactions in coupled channels, using an extension of the local hidden gauge approach that we then unitarize using the Bethe-Salpeter equation. We are then able to identify several of our poles in the charm sector with some of the observed Ξ_c states [$\Xi_c(2790)$, $\Xi_c(2930)$, $\Xi_c(2970)$, $\Xi_c(3055)$ and $\Xi_c(3080)$], as well as two poles in the bottom sector that have masses and widths consistent with the newly observed $\Xi_b(6227)$ resonance.

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