Amplitude analysis of $B^0 \to J/\psi K^+\pi^-$ **and of** $B^0 \to \psi(2S)K^+\pi^-$ **decays**[1] ANDREW BEITER, Syracuse University, LHCB COLLABORATION — Amplitude analysis of $B^0 \to J/\psi K^+\pi^-$ and of $B^0 \to \psi(2S)K^+\pi^-$ decays is performed to probe for exotic hadron contributions, like the previously reported $Z_c(4430)^- \to \psi(2S)\pi^-$ and $Z_c(4200)^- \to J/\psi\pi^-$. The data were obtained with the LHCb detector, and corresponds to 9 fb^{-1} of the integrated luminosity in pp collisions at the LHC.

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