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Production of X Resonances in B^+_c Decays

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We investigate the semileptonic $B^+_c \rightarrow \ell^+ \nu_\ell X$ decays with $X(=X(3930), X(3940), X(4160))$ resonances. We take into account these resonances as dynamically generated from the vector-vector interaction in the charm sector. The $X(3930)$ and $X(3940)$ states are $D^*_+ D^*_+$ molecules and the $X(4160)$ is $D^*_+ s^- D^*_+$ molecule. We also look at the production of $D^*_+ D^*_+$ and $D^*_+ s^- D^*_+$ close to threshold and we make predictions of the ratio of this differential mass distribution to the rate of production of the X resonances.

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