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Transition form factors of doubly heavy baryons

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The discovery of doubly heavy baryon provides us with a new platform for precisely testing the SM and exploring the new physics. Based on our previous works, we investigate the form factors of the transition $b \rightarrow c, u, d, s$ and $c \rightarrow d, s$ of double heavy baryons using the light-front quark model. Then we apply the these transition form factors to predict the partial widths for the semi-lepton decays of doubly heavy baryons.

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