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Lattice QCD study of Zb tetraquark channel

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Belle experiment discovered two tetraquark candidates Z_b^+ with flavor structure $\bar{b}b\bar{d}u$ near $B\bar{B}^*$ threshold. Lattice QCD study of this system will be presented. Significant attraction is found between B-meson and \bar{B}^* -meson at small distances. This attraction leads to an exotic virtual bound state slightly below threshold and a narrow peak in the $B\bar{B}^*$ rate slightly above threshold. These features resemble Z_b^+ seen experiment. I'll also review further theoretical work that is needed to overcome certain simplifying approximations of this study.

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