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Measurement of the energy dependence of the $e^+e^- \rightarrow B\bar{B}, B\bar{B}^*$, and $B^*\bar{B}^*$ cross sections at Belle II

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We report measurements of the $e^+e^- \rightarrow B\bar{B}, B\bar{B}^*$, and $B^*\bar{B}^*$ cross sections at four energies, 10653, 10701, 10746 and 10805 MeV, using data collected by the Belle II experiment. We reconstruct one B meson in a large number of hadronic final states and use its momentum to identify the production process. In the first 2 – 5 MeV above $B\bar{B}^*$ threshold, the $e^+e^- \rightarrow B^*\bar{B}^*$ cross section increases rapidly. This may indicate the presence of a pole close to the threshold.

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