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Recent results on bottomonium studies at Belle

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Summary

We report new measurements of the total cross sections for $e^+e^- \to \Upsilon(nS)\pi^+\pi^-$ (n = 1, 2, 3) and $e^+e^- \to b\bar{b}from a high-luminosity fine scan of the c.m. energy range 10.63-11.05 GeV and determine masses and widths of the Upsilon(1 h_b(1P) and update the h_b(1P) mass. Also revised are the branching fraction of h_b(1P)\to\gamma\eta_b(1S) and the eta_b(1S) mass and $(n = 1, 2)$ cross sections, where we find clear \Upsilon(10860) and \Upsilon(11020) peaks. We find evidence that \Upsilon(11020)\to h_b(nP)\pi^+\pi^- transitions proceed entirely via the Z_b(10610) and Z_b(10650) states. We report the analysis of the three-body e^+e^-\to B^{()}\bar{B}^{()}\pi processes, including the Born cross sections measurements and the first observations of the Z_b(1 B\bar{B}^ and Z_b(10650)\to B^\bar{B}^* transitions.

Author: VINOKUROVA, Anna (Novosibirsk)

Presenter: VINOKUROVA, Anna (Novosibirsk)

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