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Semileptonic B/Bs decays at Belle

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We present a search for the four-body semileptonic baryonic decay $B^- \rightarrow p\bar{p}\ell^-\bar{\nu}_\ell$ ($\ell = e, \mu$) based on a data sample of 772 million $B\bar{B}$ pairs collected at the $\Upsilon(4S)$ resonance with the Belle detector at the KEKB asymmetric-energy electron-positron collider. In this study, a new neural-network based hadronic B -meson tagging method is applied. The theoretical expectation of the decay branching fraction is $\sim 1 \times 10^{-4}$, which is within the experimental sensitivity of this search.

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