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New particles at Belle

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It has been nearly ten years since the narrow $X(3872)$ state has been discovered in charged B decays by the Belle experiment and its nature still remains unclear. To provide further insight on its properties, we report the search for the $X(3872)$ in the decays $B \rightarrow X(3872)K\pi$, $X(3872) \rightarrow J/\psi\pi^+\pi^-$. The analysis is based on full data sample collected at the $\Upsilon(4S)$ with the Belle detector at the KEKB collider.

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