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Measurement of the decay $B^0 \rightarrow \pi^- l^+ \nu$ in untagged events and determination of $|V_{ub}|$ at Belle

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We present a measurement of the charmless semileptonic decay $B^0 \rightarrow \pi^- l^+ \nu$ using a large sample of untagged Upsilon(4S) $\rightarrow B \bar{B}$ events collected with the Belle detector at the KEKB $e^+ e^-$ asymmetric collider. From the results, we determine the branching fraction of the decay and extract the Cabibbo-Kobayashi-Maskawa matrix element $|V_{ub}|$ using various approaches.

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