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Title:	Measurement of the branching fractions of the $B \rightarrow \eta \ell + \nu \ell$ and $B \rightarrow \eta' \ell + \nu \ell$ decays with signal-side only reconstruction in the full q^2 range
Authors:	Bhardwaj, Vishal (/jspui/browse?type=author&value=Bhardwaj%2C+Vishal) Patra, Sourav (/jspui/browse?type=author&value=Patra%2C+Sourav)
Keywords:	Measurement of the branching fractions of the $B \rightarrow$
Issue Date:	2022
Publisher:	American Physical Society
Citation:	Physical Review D, 106(3), 32013.
Abstract:	The branching fractions of the decays $B \rightarrow \eta \ell + \nu \ell$ and $B \rightarrow \eta' \ell + \nu \ell$ are measured, where ℓ is either an electron or a muon, using a data sample of 711 fb^{-1} containing $772 \times 10^6 B^+ B^-$ pairs collected at the $\Upsilon(4S)$ resonance with the Belle detector at the KEKB asymmetric-energy e^+e^- collider. To reduce the dependence of the result on the form factor model, the measurement is performed over the entire q^2 range. The resulting branching fractions are $B(B \rightarrow \eta \ell + \nu \ell) = (2.83 \pm 0.55 \text{ (stat.)} \pm 0.34 \text{ (syst.)}) \times 10^{-5}$ and $B(B \rightarrow \eta' \ell + \nu \ell) = (2.79 \pm 1.29 \text{ (stat.)} \pm 0.30 \text{ (syst.)}) \times 10^{-5}$.
Description:	Only IISER Mohali authors are available in the record.
URI:	https://doi.org/10.1103/PhysRevD.106.032013 (https://doi.org/10.1103/PhysRevD.106.032013) http://hdl.handle.net/123456789/5089 (http://hdl.handle.net/123456789/5089)
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