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Patra, Sourav (/ispui/browse?type=author&value=Patra%2C+Sourav)
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Lepton colliders
Particle data analysis
Monte Carlo methods
2021
American Physical Society
Physical Review Letters, 127(26).
The first measurements of differential branching fractions of inclusive semileptonic $B\to Xulþvl$ decays are performed using the full Belle data set of 711 fb–1 of integrated luminosity at the Yõ4SÞ resonance and for l ¼ e, μ . With the availability of these measurements, new avenues for future shape-function modelindependent determinations of the Cabibbo-Kobayashi-Maskawa matrix element jVubj can be pursued to gain new insights in the existing tension with respect to exclusive determinations. The differential branching fractions are reported as a function of the lepton energy, the four-momentum-transfer squared, light-cone momenta, the hadronic mass, and the hadronic mass squared. They are obtained by subtracting the backgrounds from semileptonic B \to Xclþvl decays and other processes, and corrected for resolution and acceptance effects
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https://doi.org/10.1103/PhysRevLett.127.261801
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