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Symmetry breaking corrections to Axial vector Mesons at Large Recoil using LEET and SCET ARSLAN SIKANDAR, MUHAMMAD JAMIL ASLAM, Quaid-I-Azam Univ — Symmetries appearing in heavy quark limit put various constraints on decay of B mesons at large recoil. These symmetries are broken by radiative corrections and hard spectator interactions. In this work, we calculated the corrections to the form factors of heavy B meson to light axial mesons at large recoil. As an application, we studied the rare decay of $B \rightarrow K_1 l^+ l^-$ and the forward backward asymmetry. These form factors with symmetry breaking corrections are later calculated in SCET and the theoretical results are compared to the experimental results.

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