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Exploiting Perpendicular Momentum Distributions of Semileptonic Decays

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We derive the differential distribution of semileptonic decays with respect to the perpendicular momentum component of the final state hadron. This approach is illustrated on the LHCb measurement of the $\bar{B}_s^0 \rightarrow D_s^{+-}$ decay distribution and uses data from the LHCb experiment in an independent phenomenological analysis for the first time.

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