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Alternative Formulation of the z -Expansion in Semileptonic Decays

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We propose an alternative method to perform the z expansion in the $B \rightarrow \pi l \nu$ decay by using a rational expression that automatically satisfies the constraint imposed by the conservation of angular momentum. This avoids having to impose a constraint on the truncated series. The accuracy of the formulation was checked by fitting the lattice data in conjunction with the experimental data from Belle and BaBar. We discuss the accuracy of extrapolations based on fits of subregions of the kinematic range.

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