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Low-energy constants from ALEPH hadronic tau decay data

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We determined the NLO chiral low-energy constant L_{10} , and various combinations of NNLO chiral low-energy constants employing recently revised ALEPH results for the non-strange vector (V) and axial-vector (A) hadronic tau decay distributions and recently updated RBC/UKQCD lattice data for the non-strange V-A two-point function. In this talk, we explain the ingredients of this determination. Our errors are at or below the level expected for contributions of yet higher order in the chiral expansion, and we therefore believe that our analysis exhausts the possibilities of what can be meaningfully achieved in an NNLO analysis.

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