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The Particle & DecayLanguage packages

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An overview of the Particle & DecayLanguage packages is given. Particle provides a pythonic interface to the Particle Data Group particle data tables and particle identification codes, with extended particle information and extra goodies. DecayLanguage provides tools to parse so-called .dec decay files, and describe, manipulate and visualise decay chains. DecayLanguage also implements a language to describe and convert particle decays between digital representations, effectively making it possible to interoperate several fitting programs.

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