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Using the JPP software package in KM3NeT reconstruction algorithms

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KM3NeT is a future research infrastructure with a neutrino telescope in the abyss of the Mediterranean Sea. In KM3NeT, the open source JPP software package is primarily used in the data acquisition, offline triggering and calibration of the data sent to shore. The available extensive set of JPP methods has been successfully used for the development of fast, robust and detailed reconstruction algorithms for KM3NeT. We will demonstrate this with the results of a hit clustering algorithm and the multidimensional interpolation of photon probability density functions for two event reconstruction methods: one aiming at fast muon reconstruction, the other at high-energy shower reconstruction. The resulting reconstruction resolution will be presented.

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