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Unfolding of the Muon Neutrino Energy Spectrum with IceCube

We present preliminary results on the energy unfolding of muon neutrinos with the IceCube Neutrino Observatory in its 79-string configuration. For the unfolding we derived a sample of high-quality muon neutrinos with a purity of above 99.2% using a random forest. Within the software TRUEE the unfolding was performed with a Tikhonov regularization and it covers an energy range of more than 4 decades from 125GeV up to 3.2PeV.

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