

Hadronization processes in neutrino interactions

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Current and future high precision neutrino oscillation experiments try to measure outgoing hadrons on top of leading leptons. For example, such hadron measurement allows to perform a better energy-momentum reconstruction of neutrinos. For this purpose, precise simulation of hadron production is necessary. Traditionally, PYTHIA6 is used to simulate the hadronization processes, but the agreement with bubble chamber neutrino-hadron production data is not always good. In this talk, I would like to review recent work on this subject, and discuss the impact on future projects, such as PINGU.

WG3: Accelerator Physics (Yes/No)

No

WG2: Neutrino Scattering Physics (Yes/No)

Yes

WG4: Muon Physics (Yes/No)

No

WG1: Neutrino Oscillation Physics (Yes/No)

No

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