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Neutrino Factory: physics reach, R&D, design & staging scenarios

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Multi flavour neutrino beams from a muon storage ring have been established to be the most far reaching option to measure leptonic CPV and completely map the PNMS matrix and its unitarity properties. Their intensities and purity being far superior and better known than those of conventional facilities, that can not promise instead the ultimate necessary precision.

It is also clear however that much R&D and design work is still needed. And recent estimates of costs have indeed been quite sobering.

A realistic and affordable staging scenario, with both physics and R&D potential at each stage, is being developed to maintain this option for our longer term future. Its first step being a simple storage ring (Nustorm) to be built now.

The talk will report the most recent discussion at the late August NuFact 13 workshop.

Primary author: Prof. PALLADINO, Vittorio (Universita e INFN (IT))

Presenter: Prof. PALLADINO, Vittorio (Universita e INFN (IT))

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