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Trident production at accelerator neutrino facilities

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Neutrino trident production is a rare Standard Model process, sensitive to the structure of the electroweak interaction. Flavour-violating tridents are also an important background to searches for deviations from lepton flavour symmetry beyond the Standard Model. Entering a frontier of precision neutrino physics comes with new regimes of energy-spread and intensity of accelerator neutrino beams, opening up new opportunities for trident studies. In this talk I will focus especially on the distinction between the structure of trident interactions for lighter lepton species those involving third-generation leptons, and provide projected reaches for present and future accelerator facilities.

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