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Tau reconstruction study at ILC250

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Two fermion production at the International Linear Collider (ILC) will allow sensitive indirect searches for new interactions, e.g. such as heavy gauge boson Z'. Tools available at ILC to measure the chirality of such new interactions include the ILC s polarised beams and the tau lepton polarisation.
Tau polarisation is extracted by measuring the distribution of tau decay products, and relies on the correct identification of tau decay mode. Especially for high energy taus, this requires a suitably-designed detector and sophisticated event reconstruction.
I performed simulation for the purpose of reconstruction of events including hadronic decay of tau lepton pairs generated in the ILC experiment.

Time Zone

Asia/Pacific

Primary authors: YUMINO, Keita (KEK/SOKENDAI); JEANS, Daniel (KEK)

Presenters: YUMINO, Keita (KEK/SOKENDAI); JEANS, Daniel (KEK)

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