



Contribution ID: 31

Type: talks

## Spin correlations of leptons and quarks at high energies

*Tuesday, January 21, 2025 12:00 PM (30 minutes)*

Anomalous contributions to magnetic and electric dipole moments of the tau lepton have brought renewed interest in development of new CP violating signatures in tau-pair production at Belle II and the LHC. We discuss spin-correlation formalism for production of polarized tau leptons in electron-positron and photon-photon processes, and in proton-proton collisions. Such studies can give information on physics beyond the Standard Model. In particular, some observables sensitive to anomalous dipole moments of the tau lepton are proposed and calculated in the conditions of  $e^-e^+$  and  $pp$  colliders.

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**Session Classification:** Session INVITED TALKS. "Ukraine for ESPP Update-2025"