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Type: **Parallel session talk**

Search for non-Standard Model interactions of the top quark at the ILC

Thursday 24 August 2023 10:20 (20 minutes)

Duration: 15'+5'

Top quarks and in general heavy quarks are likely messengers to new physics. The scrutiny of these particles properties must be completed by the measurement of electroweak $q\bar{q}$ production at high energies, in particular for the top. Projects as the International Linear Collider will offer an the extremely favorable and low-background environment of $e+e-$ annihilation and high energy reach.

This talk will review the opportunities for precision measurements of the top quark (and the other heavy quark) properties at the International Linear Collider. These include the archival measurement of the top quark mass, the search for beyond-Standard-Model contributions to the top quark electroweak form factors, the search for CP violation in the top quark couplings and the experimental challenges behind all this.

Collaboration / Activity

ILC IDT-WG3

Primary author: KAWAGOE, Kiyotomo (FLC (Forschung an Lepton Collidern))

Presenter: ZARNECKI, Aleksander Filip (Faculty of Physics, University of Warsaw)

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