



Contribution ID: 97

Type: **Oral**

Prospects for light Higgs measurements at the 250 GeV ILC.

Thursday, 18 May 2023 11:24 (15 minutes)

A light Higgs boson, with mass of the order of 100 GeV, is still not excluded by the existing experimental data, provided its coupling to gauge bosons is strongly suppressed compared to a SM-like Higgs boson at the same mass. Also other couplings of such a scalar could be very different from the SM predictions leading to non-standard decay patterns. Considered in the presented study is the feasibility of direct observation of the 96 GeV Higgs boson of N2HDM model with dominant decays to tau lepton pairs.

Primary author: Prof. ZARNECKI, Aleksander Filip (Faculty of Physics, University of Warsaw)

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

Session Classification: Physics and Detectors: Track 1

Track Classification: Physics and Detectors: Track 1: Physics at e+e- colliders