

Abstract Submitted
for the APR10 Meeting of
The American Physical Society

Anomalous Single Production of Charged Heavy Leptons at Future Linear Colliders AHMET TOLGA TASCI, ABDULKADIR SENOL, Kastamonu University — We consider the possible discovery potential for single production of charged heavy leptons via anomalous interactions at future linear colliders ILC and CLIC by taking into account initial state radiation (ISR), beamstrahlung (BS) and detector smearing effects. We calculate the production cross sections and decay widths of charged heavy leptons in the context of anomalous interactions at center of mass energies $\sqrt{s}=0.5$ TeV (ILC), $\sqrt{s}=1$ and 3 TeV (CLIC). The signal and corresponding backgrounds are studied in detail for the mass range 300-900 GeV.

Ahmet Tolga Tasci
Kastamonu University

Date submitted: 28 Dec 2009

Electronic form version 1.4