

Abstract Submitted  
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**The Electroweak Single Production of  $t'$  Quarks at the CERN Large Hadron electron Collider** ABDULKADIR SENOL, Kastamonu University, ORHAN CAKIR, Ankara University, AHMET TOLGA TASCI, Kastamonu University — We study the electroweak single production of  $t'$  quarks via the process  $ep \rightarrow t'\nu$  at Large Hadron electron Collider (LHeC). We calculate the background and signal cross sections for the mass range 300-800 GeV. It is shown that the LHeC can discover single  $t'$  quark up to the mass of 750 GeV for the optimized mixing parameters.

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