

# Probing the prospective FCC-he sensitivities on the electromagnetic dipole moments of the top-quark

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The measurement of the top-quark anomalous electromagnetic couplings is one of the most important goals of the top-quark physics program in the present and future collider experiments. This would provide direct information on the non-standard interactions of the top-quark. We study a top-quark pair production scenario at the Future Circular Hadron-Electron Collider (FCC-he) through  $e^-p \rightarrow e^- \gamma p \rightarrow \bar{\nu}_e b p$  collisions, which will provide information about sensitivities on anomalous  $\hat{a}_V$  and  $\hat{a}_A$  couplings at a 95% C.L., and the possibility of probing new physics.

## Secondary track (number)

**Primary author:** Dr HERNANDEZ-RUIZ, Maria A. (Universidad Autónoma de Zacatecas)

**Co-author:** Dr GUTIERREZ-RODRIGUEZ, Alejandro (Universidad Autonoma de Zacatecas)

**Presenter:** Dr HERNANDEZ-RUIZ, Maria A. (Universidad Autónoma de Zacatecas)

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