

# DIS2023: XXX International Workshop on Deep-Inelastic Scattering and Related Subjects



Contribution ID: 129

Type: **Parallel talk**

## BSM at the LHeC and FCC-he

*Thursday, 30 March 2023 12:00 (10 minutes)*

The Large Hadron-electron Collider and the Future Circular Collider in electron-hadron mode [1] will make possible the study of DIS in the TeV regime providing electron-proton collisions with per nucleon instantaneous luminosities around  $10^{34} \text{ cm}^{-2} \text{ s}^{-1}$ . We review the possibilities for detection of physics beyond the SM in these machines, focusing on feebly interacting particles like heavy neutrinos or dark photons, on anomalous gauge couplings, and on theories with heavy resonances like leptoquarks, or with contact interactions.

[1] LHeC Collaboration and FCC-he Study Group: P. Agostini et al., J. Phys. G 48 (2021) 11, 110501, e-Print: 2007.14491 [hep-ex].

### Submitted on behalf of a Collaboration?

Yes

### Participate in poster competition?

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**Session Classification:** WG6

**Track Classification:** WG6: Future Experiments