

# DIS2022: XXIX International Workshop on Deep-Inelastic Scattering and Related Subjects

Contribution ID: 79

Type: **Parallel talk**

## A common $eh/hh$ interaction region and detector for the LHC

Thursday 5 May 2022 09:20 (20 minutes)

In this talk we present initial accelerator considerations on a common IR to be built which alternately could serve  $eh$  and  $hh$  collisions at the HL-LHC, while other experiments would stay on  $hh$  in either condition [1]. A forward-backward symmetrised option of the LHeC detector is sketched which would permit extending the LHeC physics programme to also include aspects of hadron-hadron and heavy ion physics.

[1] K. D. J. Andre et al., An experiment for electron-hadron scattering at the LHC, Eur. Phys. J. C 82 (2022) 1, 40, e-Print: 2201.02436 [hep-ex].

### Submitted on behalf of a Collaboration?

Yes

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