

# XXIV International Workshop on Deep-Inelastic Scattering and Related Subjects (DIS16)



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## eA physics at the LHeC

*Tuesday, April 12, 2016 3:37 PM (20 minutes)*

In this talk we will present a review on the possibilities for nuclear studies at the LHeC and the FCC-he. We will show an update on the possibilities for a precise determination of nuclear PDFs, and their complete unfolding, in a kinematic region never explored before in DIS. We will also discuss diffractive and exclusive observables and the possibilities which these offer for constraining nuclear GPDs and for disentangling the relevance of non-linear dynamics in nuclei. Finally, we will show prospects for jet physics and for studies of QCD radiation in the nuclear medium, of relevance for ultra-relativistic heavy-ion collisions.

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**Session Classification:** WG1/WG7 joint session (PDF+future exp.)

**Track Classification:** Future Experiments