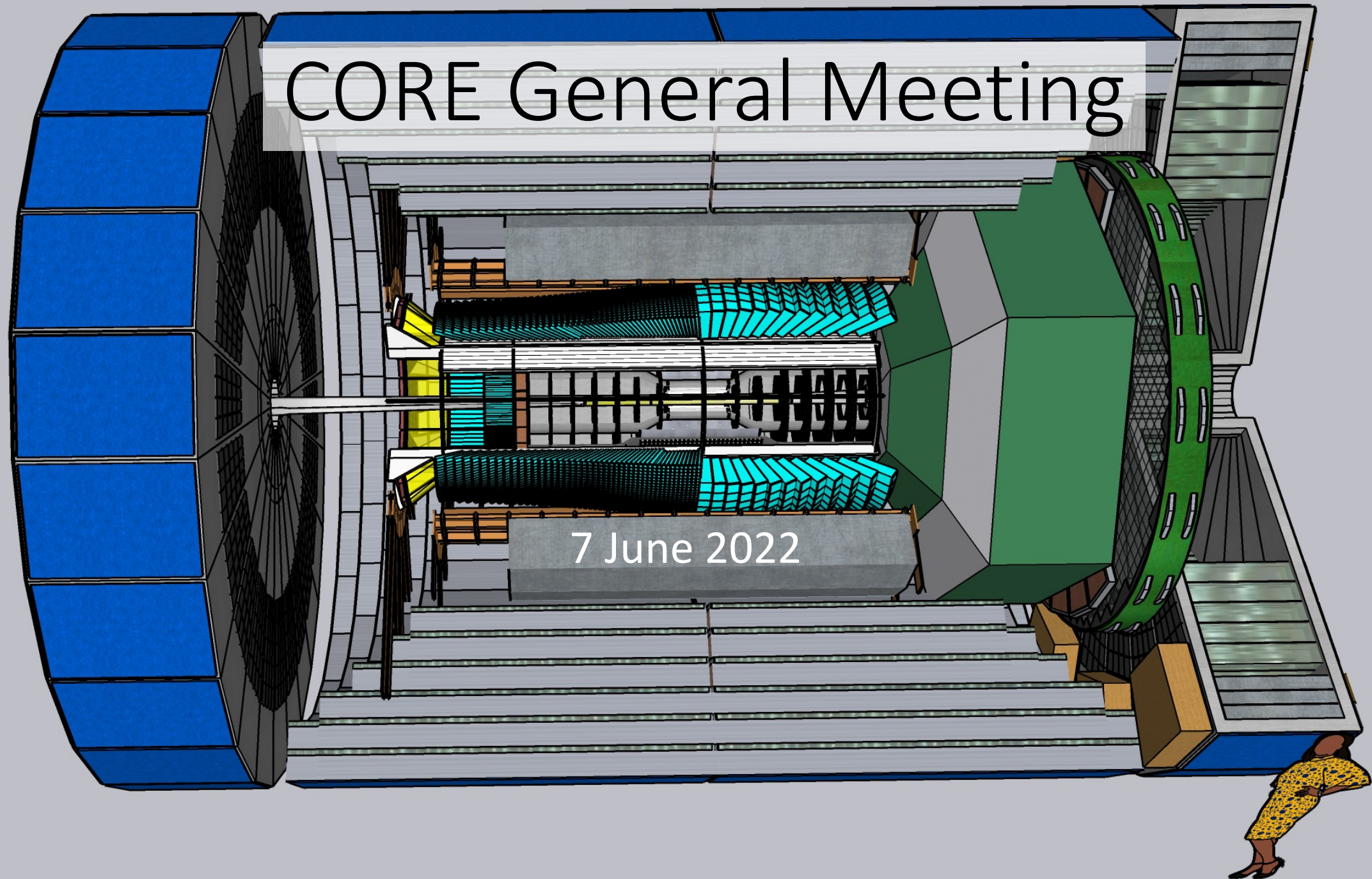
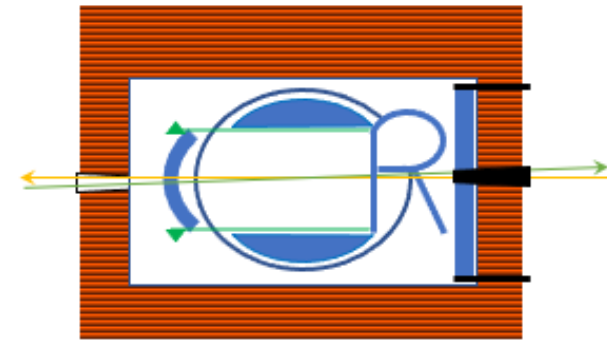


CORE General Meeting

7 June 2022

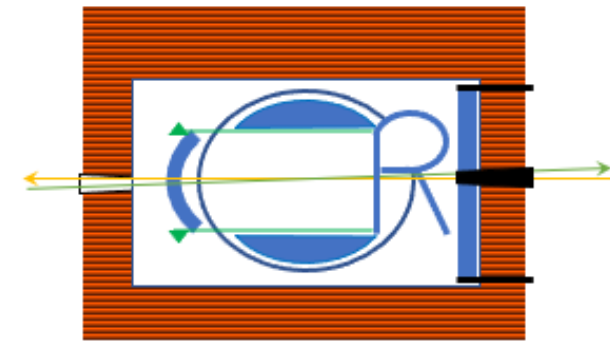


Agenda



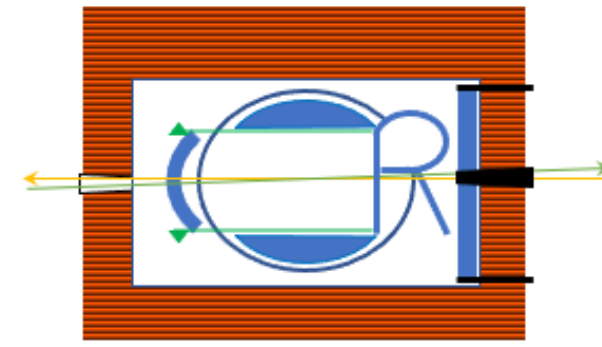
- Report on DIS 2022 (Santiago de Compostela)
 - Charles Hyde
- Rare Isotope Program at EIC
 - Brynna Moran
- Z-Tagging of far-forward projectile fragments at a secondary focus
 - Yordanka Ilieva
- Future CORE meetings

DIS 2022



- CORE presentations:
 - Gunar Schnell: **CORE - a Compact Detector for the Electron-Ion Collider**
<https://indico.cern.ch/event/1072533/contributions/4820527/>
 - C. Hyde: **Coherent Deep Virtual Compton Scattering on 4He with CORE@EIC**
<https://indico.cern.ch/event/1072533/contributions/4782207/>
- IR8, Physics with Secondary Focus
 - Brynna Moran: **Study of exotic nuclei made easy – a potentially novel topic for physics at the EIC**
<https://indico.cern.ch/event/1072533/contributions/4779245/>

DIS 2022 Working Group Summaries

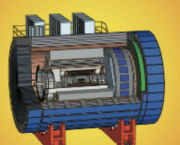


- WG6: Future Experiments
Summary talk,
Michela Chiosso:
CORE listed as contender for
2nd Detector

EIC

ATHENA

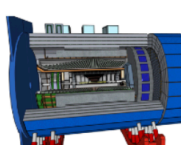
ATHENA Detector Proposal
A Totally Hermetic
Electron Nucleus Apparatus
proposed for IP6 at the Electron-Ion Collider



The ATHENA Collaboration
December 1, 2021

ECCE

ECCE
EIC Comprehensive Chromodynamics Experiment
Collaboration Detector Proposal



A study of the detector capabilities of fully matching the electron kinematics of the EIC, realized through the process of proton beam acceleration and electron beam acceleration in the storage rings IP6 and IP8.

November 5, 2021

CORE

CORE - a Compact detector for the EIC

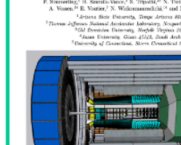


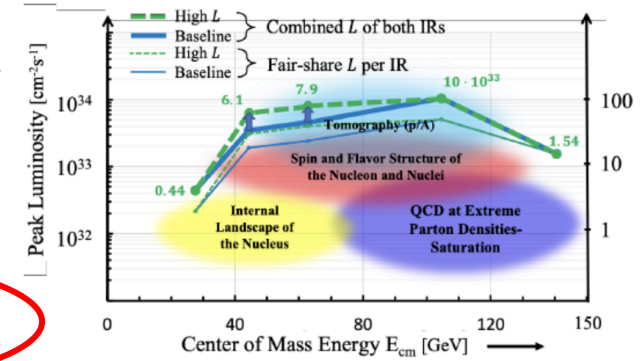
FIG. 2. View of CORE covered using "Modality" 3D modeling software.

Overview of the physics performance of the ECCE detector
Charlotte Van Hulse
ATHENA - A new detector proposed at the Electron-Ion Collider
Bernd Surrow
CORE - a Compact Detector for the Electron-Ion Collider
Gunar Schnell

Review of EIC detector proposals concluded in March 2022
ECCE was selected as the EIC project detector reference design.

Next steps:
reference design optimization and consolidation phase, with
joint efforts from ATHENA and ECCE,
towards the formation of a new detector 1 collaboration.

2nd experiment (DETECTOR 2) planned on a different timescale,
e.g. CORE proposal!



Peak Luminosity [cm⁻²s⁻¹]

Annual Integrated Luminosity [fb⁻¹]

Center of Mass Energy E_{cm} [GeV]