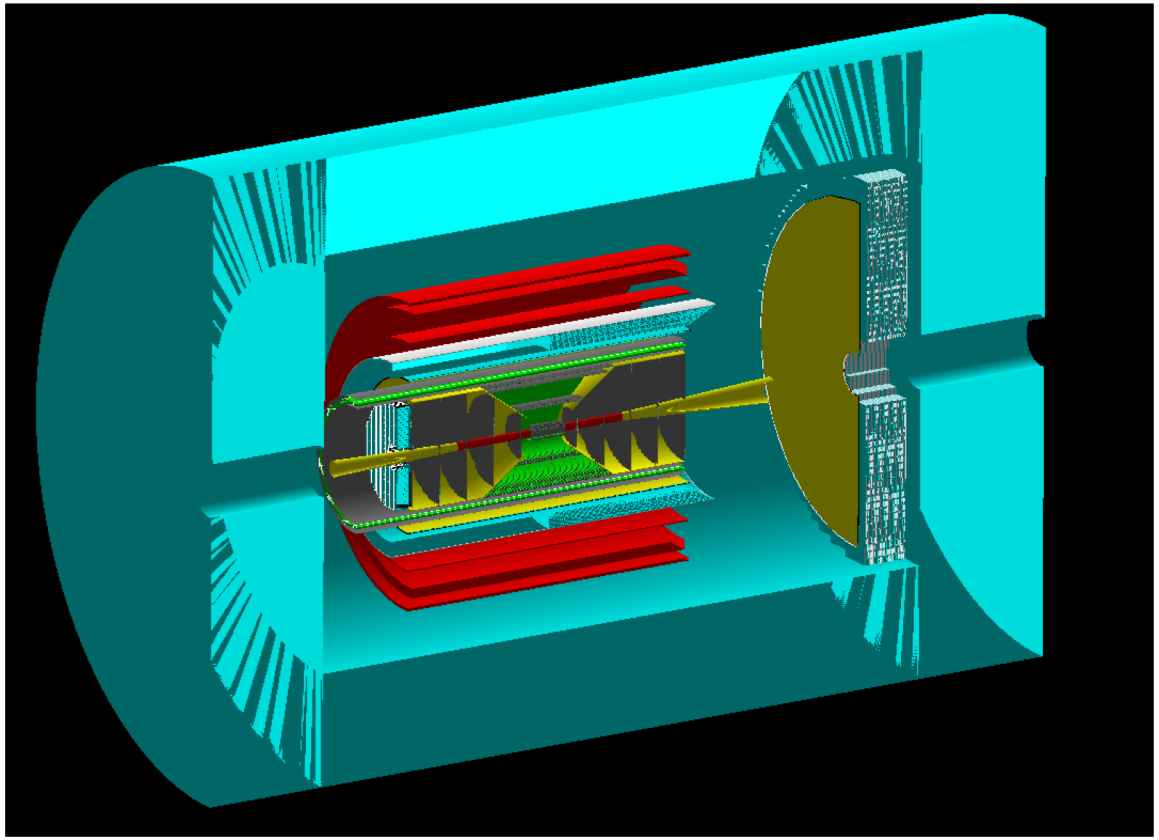
CORE: contacts and advisors



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Stony Brook University

CORE meeting, May 17, 2021

CORE contacts and advisors – 12 signed up at the moment

Contacts

- Contacts are CORE collaborators who act as point of contact for a subsystem and
  - Organize related activities - as needed, and needs will vary between subsystems
  - Ensure that the implementation in simulations is correct
  - Optimize performance and integration of the subsystem
- Not all subsystems need a contact at this stage
  - The Si-tracker, for instance, is incorporated into CORE as provided by eRD25

Advisors

- Advisors do not have to be CORE collaborators – although they can be
  - An advisor can, for instance, be a member of an R&D consortium that has agreed to support all detector proposals, or an independent expert
- Advisors will provide general input which could include
  - Performance and costing
  - Design choices and risks

In other news…

IR8 for CORE

- A version of IR8 matched to the size of CORE should be available within a month
  - 4.5 m length on hadron size and 3.5 m on electron side
  - Vertical SR collimation will be explored as one way to incorporate an elliptic beam pipe

CORE solenoid

- The first iteration, shown at the last meeting, indicated that the constraints on projectivity for the RICH and field magnitude at the DIRC photosensors could easily be met at 2 T field on axis.

- A second iteration is in progress, with minor changes to the baseline
  - On-axis field of 2.5 T
  - Slightly larger dimensions: 1 m inner cryostat radius, e-side flux return at z = -2.5 m.

Thank you!