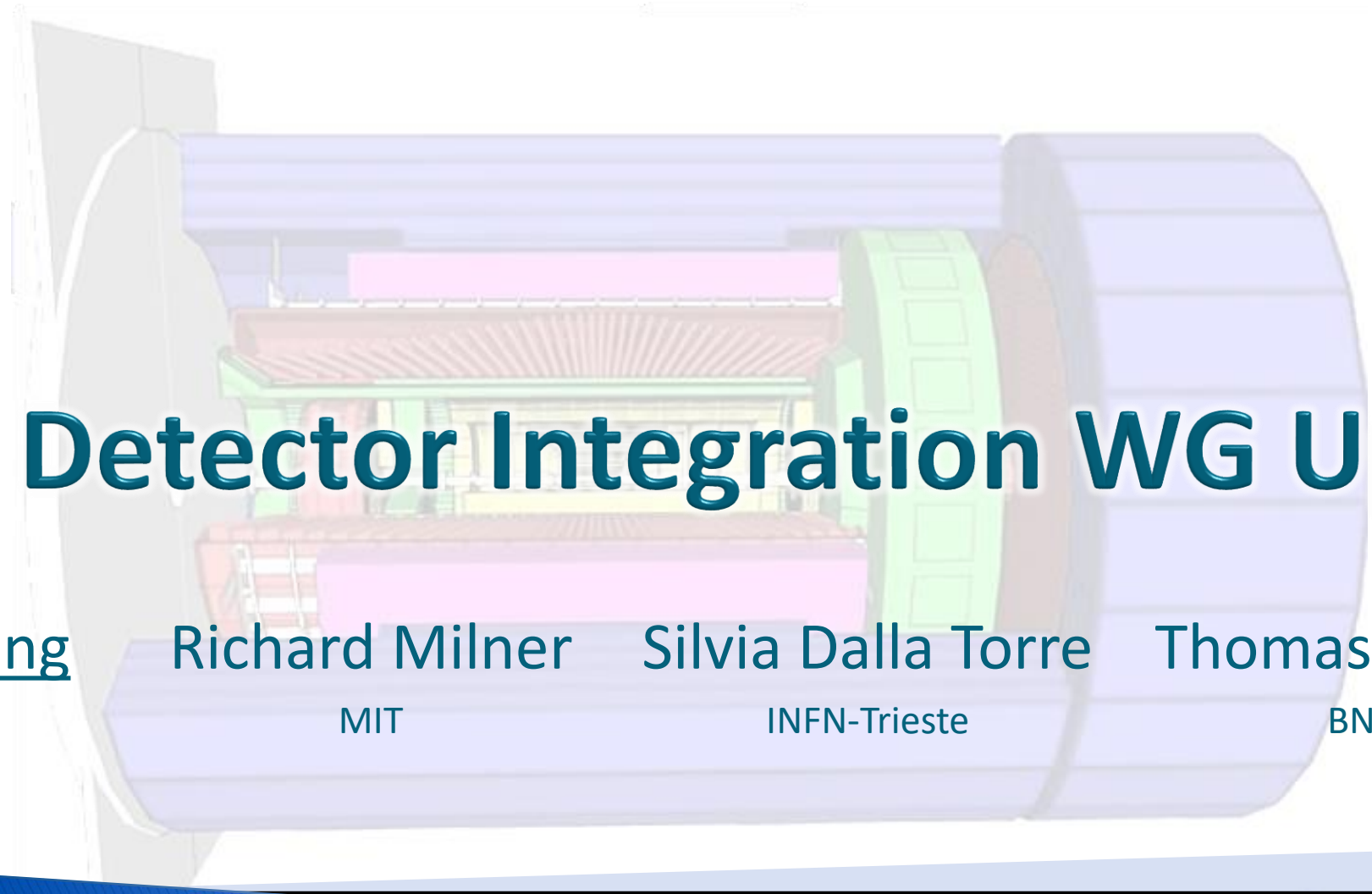


Global Detector Integration WG Update

Jin Huang — BNL

Richard Milner — MIT

Silvia Dalla Torre — INFN-Trieste

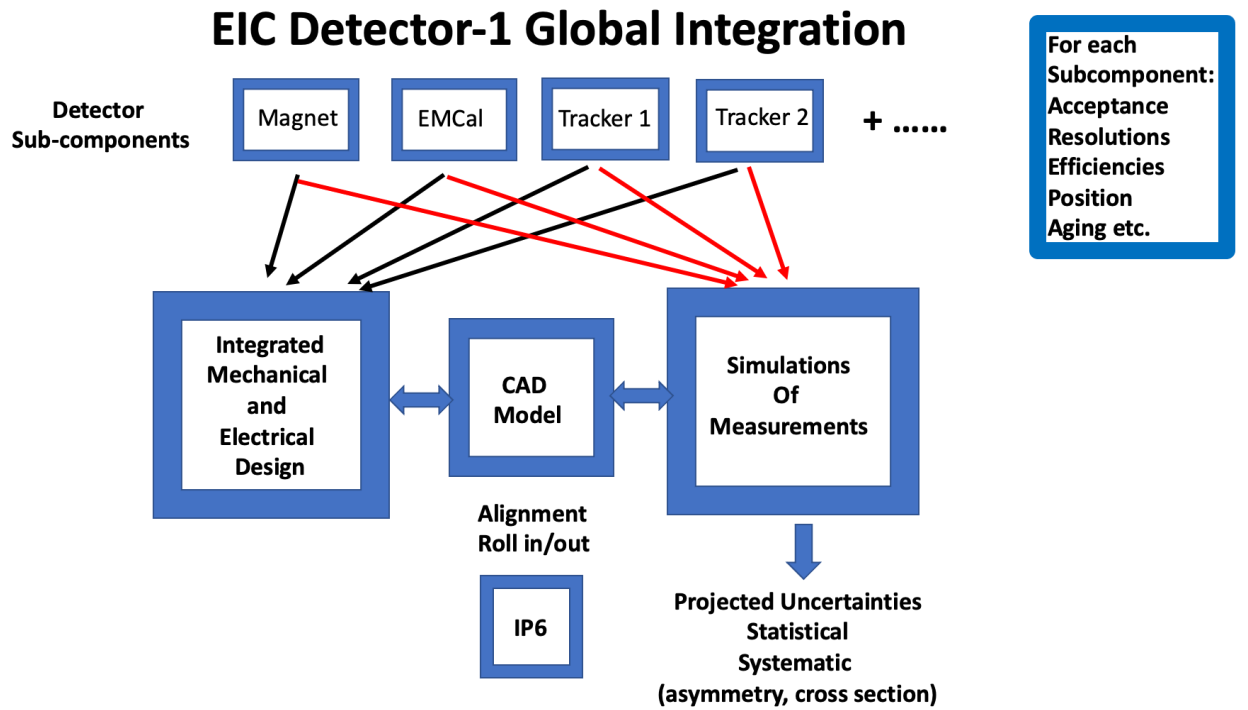
Thomas Ullrich — BNL

- Sign up email list for WG announcement: https://lists.bnl.gov/mailman/listinfo/eic-projdet-globalint-l
- WG wiki landing page: https://wiki.bnl.gov/eic-project-detector/index.php/DetectorIntegration

Specific charge elements for GD/I WG

Your working group is fundamentally quite different from the joint detector and physics working groups that have been recently formed, in that we are asking your working group to take a broad view of the EIC project detector as it evolves to a technical design. The global charge to your WG is as follows:

- Work with the project and the joint working group to develop a detailed, integrated technical design of the project detector. This includes the integration of various detector systems, the necessary supports and services, and the requirements imposed by the ability to service the detector between EIC running periods.
- Work with the detector and physics working groups, as well as project management, to ensure that the integrated project detector remains capable of the full science program outlined in the EIC Whitepaper and NAS report. Where compromises need to be made in the integration of the project detector, ensure that the proper simulations studies are completed to ensure they do not unduly compromise the EIC science program.



WG's prioritization list

- Current WG's agenda
  - Touch base with the DWG conveners – May 9
  - Review global design consideration in both proposals –May16
  - Review Babar magnet's features and first feedback from project engineers–May 23
- In the following:
  - Focusing of specific detector items, which require dedicated attention and, often, inputs from more than a single WG
  - Coordinating service, readout material; global acceptance gap management; assembly principle and access for maintenance
  - Establish integrated detector model and subsystem envelops
  - Update and advance background studies
  - Review/coordinate consistency between simulation v.s. CAD detector models and detector parameters, with the aim of verifying that the projected measurements from the simulations of Detector-1 performance will deliver the WP/YR scientific program