

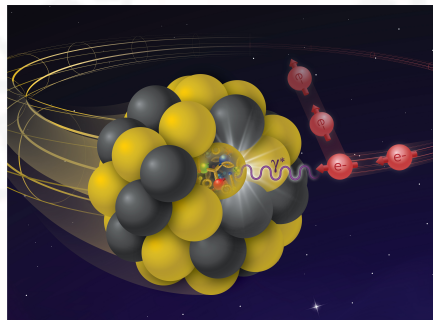


# Detector Proposal Organization - Initial Thoughts -

Bernd Sorrow

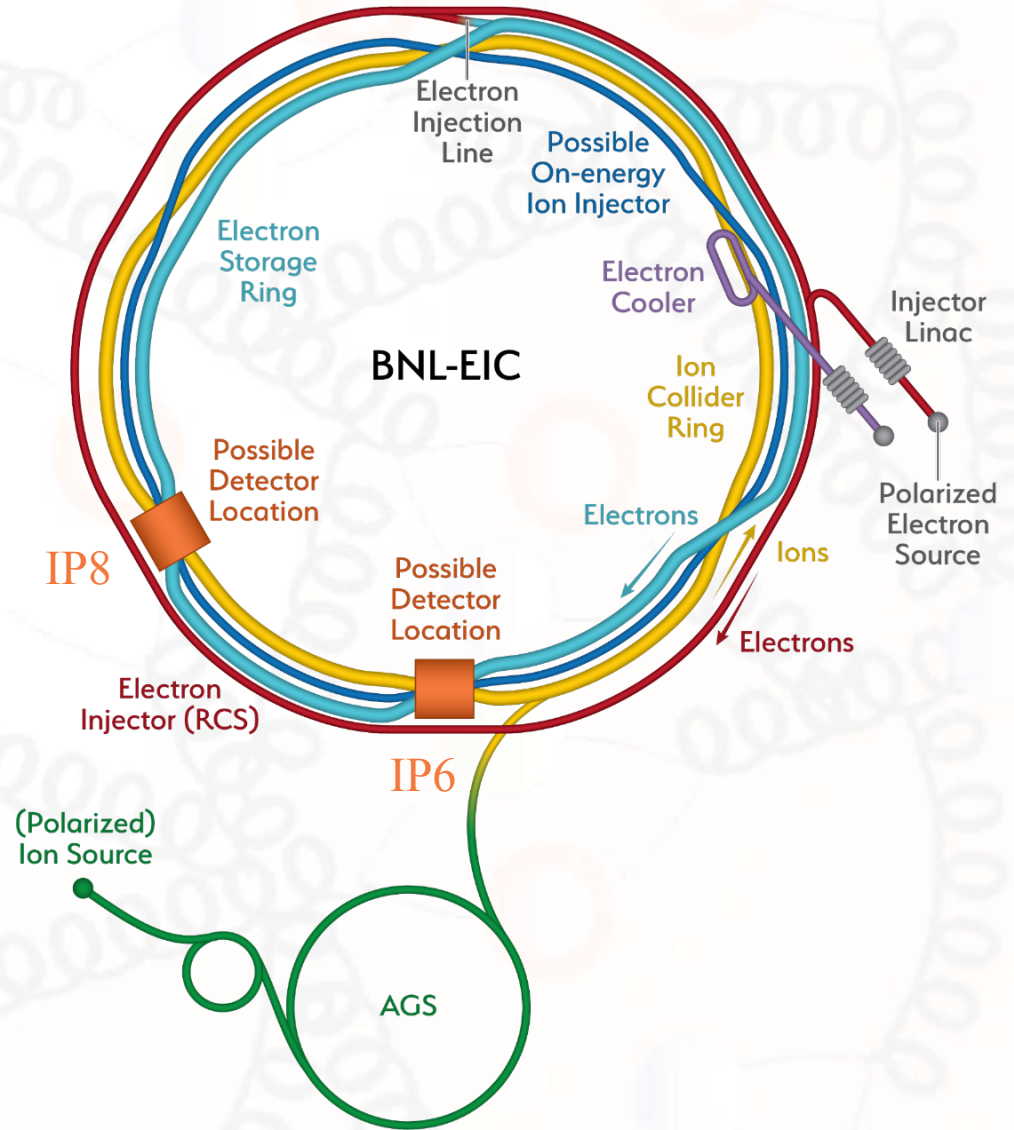


On behalf of the EIC@IP6 Organizing Committee  
Silvia Dalla Torre, Abhay Deshpande, Olga Evdokimov,  
Barbara Jacak, Franck Sabatié, Bernd Sorrow



# Outline

- Organizational elements & Tools
- Timeline
- Decision-making process
- Summary





# Disclaimer

- The thoughts presented here are a **starting point** for a discussion on how to best organizing the **detector proposal preparation process**.
- It should be understood that the **vision outlined in the following is up for discussion. We need your input and very active participation!**



# Organizational Elements

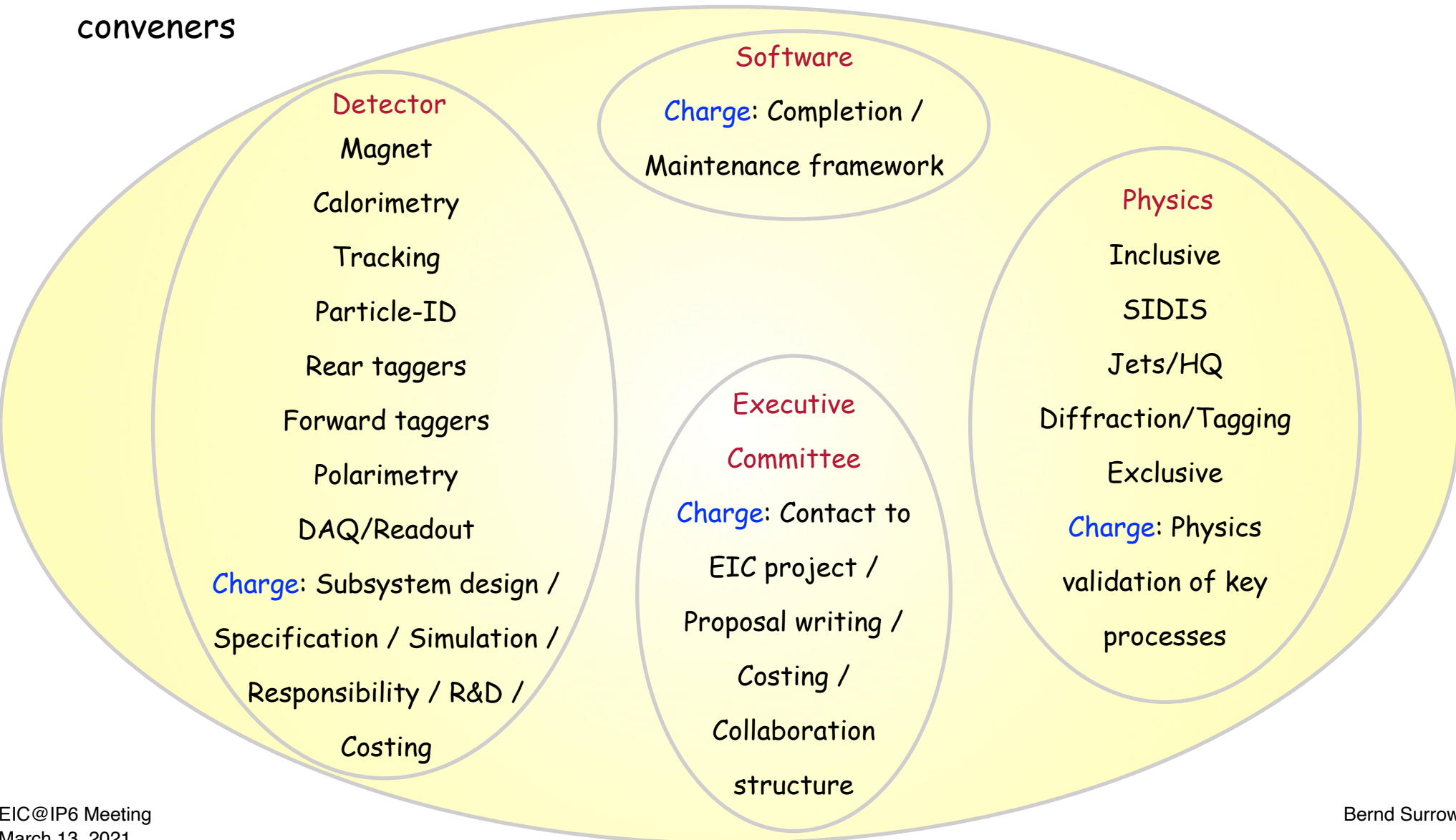
- Email lists: Two options
  - Continue to use google-based mailing lists as used for YR study or
  - Use BNL mailing lists: <https://lists.bnl.gov/mailman/listinfo>

Decision needs to be made very soon!

- Meetings
  - Continue to use BNL/JLab INDICO for all workshop/meeting announcements
  - Agree on regular (Bi-weekly) consortia/pre-collaboration wide meeting schedule
  - Individual weekly working group meetings
- Online documentation
  - Use a common tool for collection and documentation of results, e.g. MS share points & TEAMS / Google / Dropbox
- Simulation tools
  - Decision about the type of simulation tools needs to be made quickly!
- Proposal writing framework: Use Overleaf - Preparing outline can and should start soon à la YR!
- Contact to EIC Project Management: Official contact Elke Aschenauer

# Organizational Elements

- Working groups / Committees: Formulate a concise charge for working groups / conveners





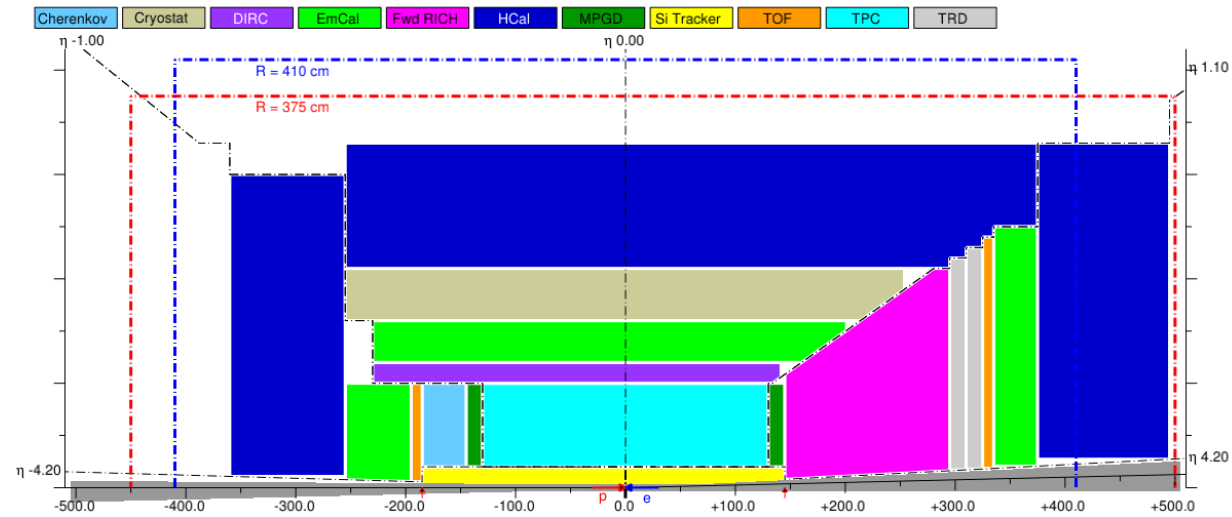
# Timeline

	March	April	May	June	July	August	September	October	November	December
Org. tools	Yellow									
Org. structure	Yellow									
Completion sym. tools	Yellow	Yellow	Yellow	Yellow						
Subsystem specification	Yellow	Yellow	Yellow	Yellow						
Subsystem simulation		Yellow	Yellow	Yellow						
Specification of key processes		Yellow	Yellow	Yellow						
Simulation / Analysis				Yellow	Yellow	Yellow	Yellow	Yellow		
Costing / R&D / Timeline					Yellow	Yellow	Yellow	Yellow		
Collaboration structure						Yellow	Yellow	Yellow		
Proposal writing							Yellow	Yellow		
Editing									Yellow	
Submission										Red



# Decision-making process

- Simulation framework
- Subsystem specification:
  - Magnet specifications
  - Subsystem config.: Tracking configuration, PID type etc.
  - Subsystem simul. / Integration
  - R&D / Costing / Timeline / Responsibility
  - ...
- Validation of key processes in simulations of proposed layout!



J. Furltova (JLab)



# Proposal

## □ Open Call for Detector Proposals:

Detector 1 Collaboration Proposals: **Experiments must address the EIC White Paper and NAS Report science case.** The collaboration should propose a **system that meets the performance requirements** described in the **EIC CDR and EICUG YR.** The design should be **compatible with that of the accelerator and interaction region layout** of the CDR. **Completion of detector construction must be achieved by Critical Decision (CD)-4A,** the start of EIC accelerator operations. The Proposals should include two parts:

(1) A description of the **science addressed and performance estimated through simulation** including, but not limited to, **e/γ, jets, π/K/p separation, vertex, and tracking,** and how the simulated performance compares to the requirements detailed in the YR. The **realization of the conceptual detector** design given the **technology choices,** the **R&D needs, risks,** and, if applicable, adoption of emerging new technologies.

(2) A **collaboration roster and structure, timescale and cost** (including potential sources of funding sources and assumptions), and **potential upgrade paths.**

If possible, the **proposal should not exceed 60 pages, 40 pages for the first part and 20 for the second.**

Physics / Detector

Collaboration



# Summary

Your commitment and expertise are essential to make the next steps a reality:

