

ePIC Detector Overview paper

Writing Board

September 9th, 2026

NIM-A Special Issue

MOTIVATIONS

- Enormous progress of the Collaboration in all aspects → document and disseminate!
 - NOTE: the preTDR cannot include a fully detailed documentation because of obvious need of concision
- Need to recognized the efforts of the collaborators, particularly of young scientists →
Publication is an obvious path
- Making ePIC voice heard
 - It is essential to show that there is an active, vital international community that is invested in the EIC

WHICH JOURNAL

- Looking at previous examples (f.i. NIM-A Special Issue for RHIC) address NIM-A
- Positive outcome from contacts (Feb. 2026) with the NIM-A Editor in charge of special issues

GOAL

- Goal defined also thanks to conversations within the Collaboration
- A comprehensive issue on the ePIC detector and its capabilities for EIC science, not DSCs only !
 - Elsevier editors very encouraging also respect to the enlarged scope issue

→

"The ePIC Detector and Science Program at the
Electron Ion Collider"

TIMELINES

- Open for submission: March 15, 2026
- Submission Phase-1: (Oct. 2026)
 - Primarily support the EIC Early Science program as well as the synergy with US priorities
- Submission Phase-2: (continuously open for submission till Early 2027)
 - Expand the scope to the full EIC Science program (comprehensive)

MANAGERIAL ASPECTS

- Guest editor: John Lajoie
- Co-guest editors: the ePIC Coordinators with obvious distribution of responsibilities
- All submitted papers will be subject to peer review

NIM-A Special Issue

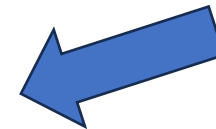
Anticipated content

- Streaming Computing Paper:
 - Advanced draft, submit to NIM-A special issue by October
- Streaming Reconstruction Paper:
 - Potential to be ready by October
- Software and Simulations Paper:
 - Potential to be ready by October
- Physics performance paper (derived from pTDR)
 - To be addressed when the overall ESR is completed
- Early Science Report
 - The most advanced, already in ArXiv in its July version
- Early Science Physics Appendices
 - The detailed studies for the ESR, 2 of them expected for Phase 1, 2 others later
- BSM/EW Physics Performance Paper
 - In preparation
- ePIC Detector Overview Paper
- Subsystem technical papers (derived from pTDR)

Expected :
Phase 1

Expected :
Phase 2

A frame for the overall material by DSCs



Discussions at TIC: April 2026, Sep 14 2026

NIM-A Special Issue, Detector overview paper

- **Goal:** a comprehensive introduction to the ePIC detector
- **Features:**
 - Mentioning all essential ingredients without details (the detailed information will be found in the DSC papers)
→ Anticipated paper length: 10-15 pages
- **By whom?**
 - A Writing Board has been formed:
 - TC-Office (Silvia Dalla Torre, Prakhar Garg, John Haggerty, Oskar Hartbrich)
 - Alex Jentsch
 - Norbert Novitzky
 - Barak Schmookler
- **Timelines:**
 - Kickoff meeting on September 9th 
 - Paper structure defined by September 23th
 - Production of texts by October 14th
 - Distribution of the draft to the collaboration on November 2nd

Thank you for serving in the Writing Board !