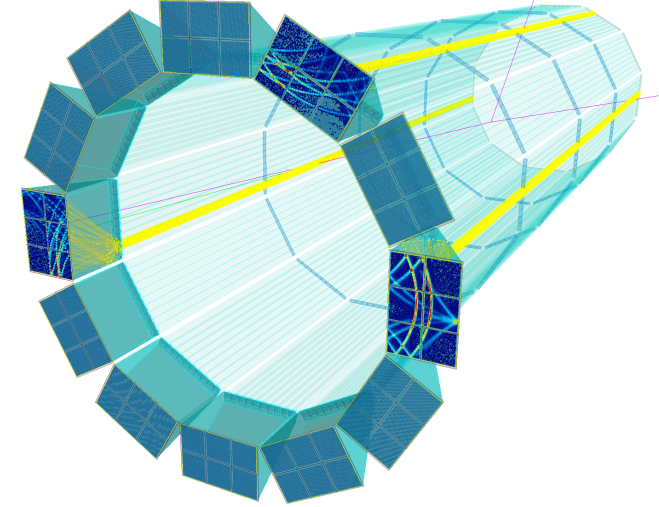


# hpDIRC EIC Annual Meeting

hpDIRC Simulation

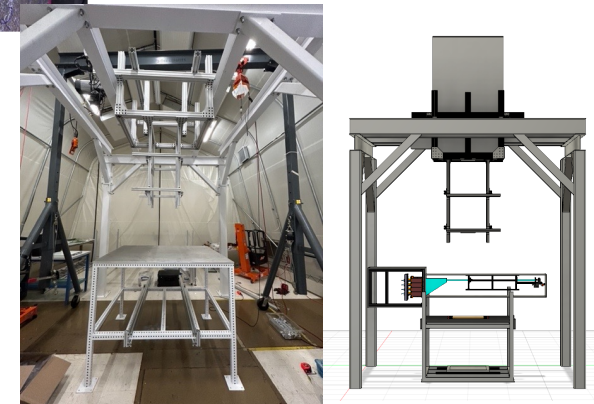


- Meeting at JLab: May 31<sup>st</sup> – June 4<sup>th</sup>, 11 participants in person, few by ZOOM
- Key hpDIRC projects discussed and re-evaluated:
  - Validation of BaBar bar reuse in new QA lab at JLab
  - Prototype program at SBU with Cosmic Ray Telescope
  - Software status, remaining studies
  - Plan for PID review, project and generic R&D proposals
- Expanding hpDIRC DSC (Wayne State officially joined the group)
- “Satellite Meetings”
  - Preparation for BaBar bar box transport from SLAC and disassembly at JLab
  - Established clear path moving forward with ePIC Software group
  - Advanced work with Avi Mizrahi on Mechanical Design and Integration
  - Discussed status and further plans with ePIC Management

DIRC barboxes in SLAC

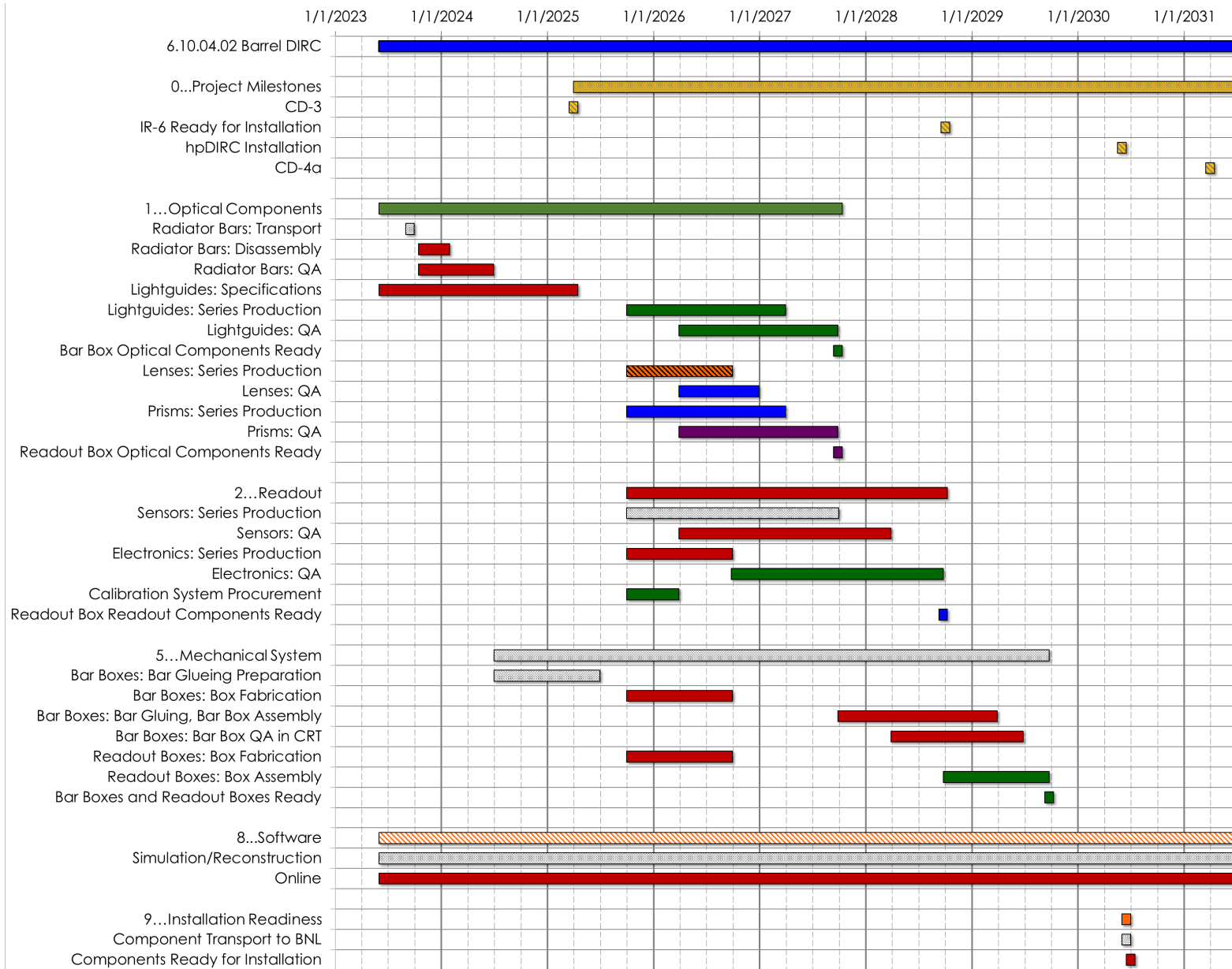


DIRC lab/CRT space at SBU CRT CAD



# HPDIRC SCHEDULE

- hpDIRC technical schedule consistent with project schedule
- On track for TDR readiness next summer
- hpDIRC scheduled for installation into ePIC in June 2030
- Expect hpDIRC readiness for installation well before that date

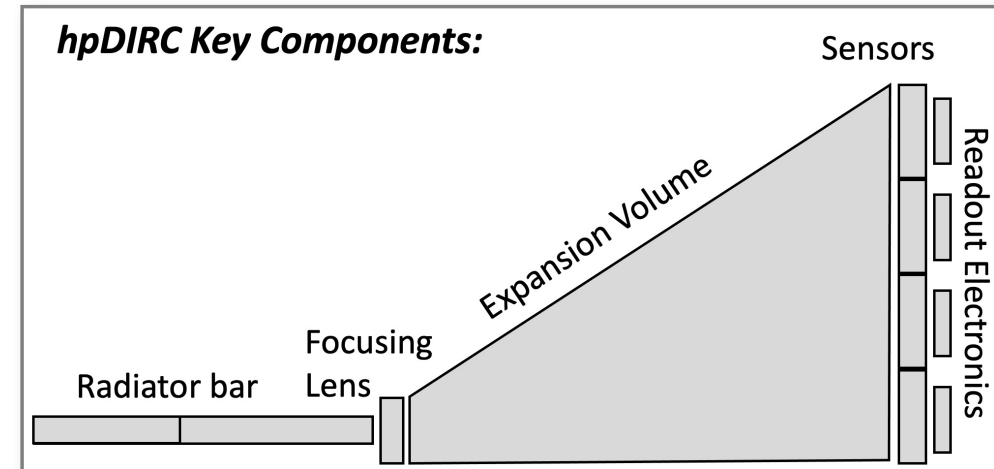


## Recent formation of hpDIRC system collaboration (DSC)

- Core formed by groups that have been involved in the BaBar, GlueX, and PANDA DIRC counters, and in the EIC DIRC R&D program, for many years, some since 2011
- Expressions of interest (informal) in many work packages, continue to grow DSC
- Started process to match expertise and interest to system priorities

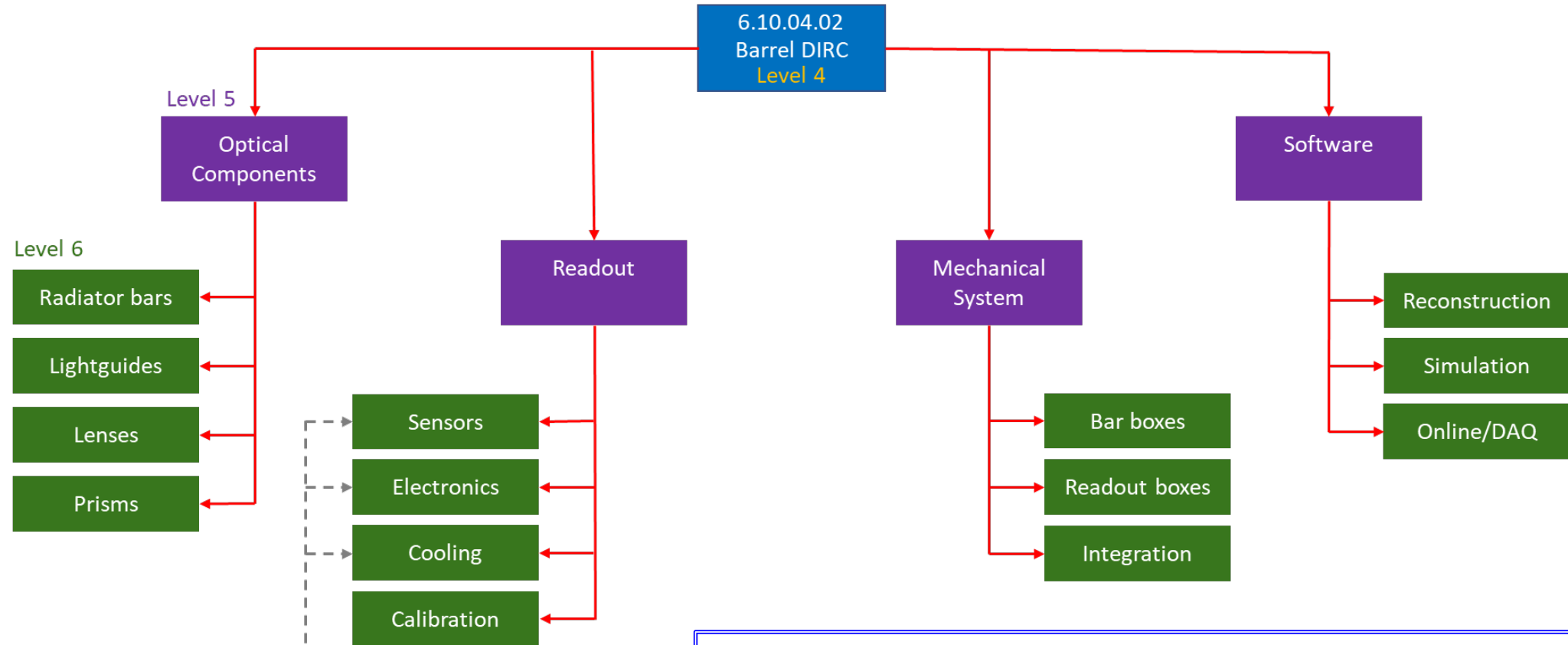
## EoI examples:

- **Radiators:** transport and disassembly of BaBar DIRC bar boxes, validation quality of disassembled bars, optional QA of new bars/plates for light guide section – [JLab](#)
- **Bar boxes:** gluing of bars and lenses, assembly of bar boxes, QA in Cosmic Ray Telescope – [SBU](#)
- **Lenses:** evaluation of focal plane, QA – [ODU](#)
- **Sensors:** QA, readout chain tests – [USC](#)
- **Readout boxes:** assembly, QA – [WSU](#)
- **Simulation, reconstruction** – [CUA](#), [W&M](#), [GSI](#), [WSU](#)



# HPDIRC WORK PACKAGES

## Preliminary hpDIRC work package breakdown to level 6



### hpDIRC DSC: Interested Groups (so far)

- CUA (radiators, simulation, lenses)
- GSI (software, scientific advice)
- JLab (radiators, light guides)
- ODU (lenses)
- SBU (bar boxes, module tests)
- USC (sensors)
- W&M (software, calibration)
- WSU (readout boxes, simulation)

# HPDIRC WORK PACKAGES

Example of preliminary hpDIRC work package breakdown to level 7 (with institutional interests)

