

Collider-Accelerator Department
Machine Advisory Committee Meeting (C-AD MAC-22)

17 – 19 December 2025
Hybrid

Charge

After 25 years of RHIC operation, the Collider-Accelerator Department (C-AD) is concluding the final RHIC Run with the new sPHENIX and the upgraded STAR detectors in January 2026. After completion of the RHIC physics programs, C-AD will assume responsibility for removal of equipment not needed for the EIC from the RHIC tunnel and experimental halls, will maintain the hadron accelerator complex in a ready state, operate the hadron injectors for isotope production at BLIP and space radiation studies at NSRL, and will continue R&D in accelerator science and technology.

During this year's MAC we request the committee's review and advice on (i) the plans for maintaining and upgrading the hadron injector complex over the next 3 years and beyond, and (ii) the strategy and efforts of the C-AD R&D efforts.

Please address the following charge questions:

- a) Comment on possible models of availability as a function of funding, and risks associated with single points of failure.
- b) Are the C-AD plans aligned with the EIC goals over the next decade?
- c) Are the present efforts well executed, and future work well planned?

Any other comments on the C-AD accelerator operation and R&D are welcome.

It is requested that a concise report responsive to this charge be forwarded to the C-AD Chair, Wolfram Fischer, by 5 January 2026.