

Collider-Accelerator Department
Machine Advisory Committee Meeting (C-AD MAC-20)

19 – 21 December 2023
Hybrid

Charge

The Collider-Accelerator Department (C-AD) is preparing for two more years of running with the new sPHENIX and the upgraded STAR detectors. The most recent RHIC Run-23 was ended on 1 August 2023, 6 weeks early, because of a helium leak in a valve box and subsequent damage to a superconducting DX magnet. After completion of the RHIC program the C-AD will maintain the hadron accelerator complex in a ready state while transitioning the majority of the staff to the Electron Ion Collider (EIC) Project.

During this year's MAC we request the committee's review and advice on (i) the operation with sPHENIX and STAR, (ii) the plan to maintain the hadron injectors for EIC, and (iii) the presented R&D initiatives.

For item (i) and (ii), please address the following charge questions:

- a) Are the technical goals realistic and is the progress appropriate to meet the stated goals?
- b) Are there any technical issues that were missed and/or need additional attention by the team?

For item (iii), please also address the following charge questions:

- c) Is the accelerator R&D effort 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 2024.