

ARW 2024

Accelerator Reliability Workshop

MAX IV and ESS are Excited and Pleased to Announce their Joint Hosting

Contribution ID: 2

Type: **Oral**

RHIC Run 23 Valve Box Failure

Wednesday, 26 June 2024 09:35 (25 minutes)

Run 23 for the Relativistic Heavy Ion Collider saw the return of two collision points for the first time since 2016 using Au-Au collisions for the commissioning of the new sPHENIX detector and a physics run for the STAR collaboration. The run was cut short by 6 weeks when a warm-to-cold power connection failed for the main ring power supplies. An exhaustive investigation showed several contributing factors to the failure, ranging from design issues in the feedthrough to cryogenic flow issues within the transition. This talk will cover the results from the investigation and mitigation steps taken for the next two RHIC runs.

Primary author: SHREY, Travis (Brookhaven National Lab)

Presenter: SHREY, Travis (Brookhaven National Lab)

Session Classification: Lessons Learned