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Maintenance and Upgrades at Brookhaven National Laboratory's Collider Accelerator Department

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The Collider Accelerator Department (CAD) at Brookhaven National Laboratory, which includes the Relativistic Heavy Ion Collider (RHIC), has been in operation for 57 years. For the past 17 years, production at RHIC has been the major focus, but new goals loom on the horizon. In this paper and presentation, I will discuss, compare and contrast early methods to those used in the modern era here at CAD. I will focus on the challenges of maintaining both old and new systems with an eye on the future. In addition, methods for coping with the many faceted challenges of installing new and upgrading old equipment for a major construction period while maintaining the ability to deliver product for the current users will be discussed. Other topics including scheduling, coordinating, planning, documenting and reviewing all phases of work will be touched upon.

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