

# The PHENIX Muon Arms: Current Design and Status

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for the PHENIX Collaboration

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## Abstract

The PHENIX Muon Arms consist of two end-caps on the PHENIX detector which are optimized to carry out both a Relativistic Heavy Ion Physics Program and a Spin Physics Program using the RHIC accelerator in collisions ranging from  $pp$  to  $Au - Au$ . The design of the Muon Arms tracking and muon identification sub-systems is described. The current status of the designs, simulations, R&D developments, and construction are presented. Finally, the present budget and schedules are summarized.

This document is meant to be used as an update to the information previously presented in the PHENIX Conceptual Design Report (CDR), the CDR Update, and the spin physics proposal described in the PHENIX Spin Physics Upgrade Proposal.

This document supersedes PHENIX Muon Arms: Current Design and Status, January 19, 1996. Appendix A provides a short list of the modifications of this document from that previous version.

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