

Abstract Submitted
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The Silicon Tracker Upgrade for the Phenix Muon Arms GERD KUNDE, Los Alamos National Laboratory, PHENIX COLLABORATION — A proposed upgrade to the Phenix muon arms is a four station precision silicon vertex tracker which would be placed before the muon arm absorbers. This silicon detector will greatly expand the physics reach of the muon arms. The capability to detect displaced single muon tracks and displaced vertices of muon decay will greatly impact the open charm and open beauty detection and allow to directly measure the beauty quark production via the J/ψ decay branch. The four station tracker will use a mini-strip silicon detector geometry in umbrella shape to cover the muon arm acceptance. Measurements pertaining to the quark gluon plasma, shadowing in d-A and delta-G in p-p will be discussed and the readout concept will be presented.

Gerd Kunde
Los Alamos National Laboratory

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