Abstract Submitted
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Nose-Cone Calorimeter: upgrade of PHENIX detector ONDREJ CHVALA, UC Riverside — PHENIX experiment at RHIC is efficient at measuring processes involving rare probes, but has limited acceptance in azimuth and pseudorapidity (η). The Nose Cone Calorimeter (NCC), a W-Si sampling calorimeter in the region of $0.9 < \eta < 3$, is one of the upgrades which will dramatically increase coverage in azimuth and pseudorapidity. The NCC will expand PHENIX's precision measurements of electromagnetic probes in η, reconstruct jets, and enhance triggering capabilities. It will significantly contribute to measurements of γ-jets, quarkonia, and low-x nuclear structure functions. Details of the detector design, performance, and a sample of the physics topics which will benefit from the NCC, will be discussed.

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