

Abstract Submitted
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$\phi \rightarrow K^+K^-$ meson measurements in d+Au and Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV DIPALI PAL, Vanderbilt University, PHENIX COLLABORATION — The ϕ meson is an important probe for studying both medium effects and strangeness production in high energy heavy ion collisions. In order to distinguish between cold and hot nuclear matter effects we compare the ϕ meson yields and line shapes in d+Au and Au+Au collisions at RHIC. The PHENIX experiment has measured the ϕ mesons in the K^+K^- channel in both Au+Au and d+Au collisions at $\sqrt{s_{NN}} = 200$ GeV including the data from recent high statistics ($\sim 1.5 \times 10^9$ events) in the RHIC 2003-4 run. The latest results on the ϕ meson line shapes and yields at different centralities will be discussed.

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