Accelerator Physics Seminar
Friday August 1, 2003
(13:30 in Room 459/30b)

RHIC Operation with Deuteron-Gold and Polarized Proton Collisions

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Abstract

In the last run, RHIC collided for the first time deuterons with gold ions, at 100 GeV/u in both beams. This required a fast switch over time between different species in the injector chain, and a common horizontal angle of both beams in the interaction regions. We review the run performance and discuss luminosity limiting effects. The machine was upgraded to double the bunch number to 110. However, with high bunch intensities pressure rises and large experimental backgrounds are observed. RHIC also accelerated and stored 30-35% polarized protons at 100 GeV in both rings. In addition to the existing Siberian snakes, spin rotators were commissioned to deliver longitudinally polarized beams to two of the four experiments.

NOTE THE UNUSUAL DATE AND TIME

D.P.Barber (MPY) and M.Vogt (MPY).