

ACCELERATOR TIMING AT THE RELATIVISTIC HEAVY ION COLLIDER*

B. Oerter, BNL

* Work performed under the auspices of the U.S. Department of Energy

The Brookhaven Relativistic Heavy Ion Collider (RHIC) has just completed its commissioning run. This paper will discuss early experience with RHIC's two timing systems, a beam synchronous system and a general purpose event system, during the commissioning period. These systems provide synchronization among the more than 700 waveform generators, distribute clocks and provide triggers for data acquisition to more than twenty seven locations. The Booster and AGS preinjectors each have their own timing systems. Some events are generated locally for use by a particular accelerator, and others must be distributed among all accelerators to provide the appropriate sequencing of the machines.