

**High Intensity Performance of the Brookhaven AGS\***, M. BRENNAN, T. ROSER, AGS Dept., BNL, Upton, NY 11973 - Experiences and results from the recent high intensity proton running period of the Brookhaven AGS, during which a world record intensity of  $6.3 \times 10^{13}$  protons/pulse was reached, will be presented. This high beam intensity allowed for the simultaneous operation of three high precision rare kaon experiments. The record beam intensities were achieved after the 1.5 GeV Booster was commissioned and a transition jump system, a powerful transverse damper, and an rf upgrade in the AGS were completed. Recently even higher intensity proton synchrotrons are studied for neutron spallation sources or proton driver for a muon collider. Implications of the experiences from the AGS to these proposals and also possible upgrades for the AGS will be discussed.

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