learning to exist, and make progress behind d-Au RHIC – need long stores, and already adequate d and Au injector setups. We may be close now.

-sprint last weekend in January to provide CNI group protons.

-another sprint last week (lest the run be gone with nothing further to show), again to provide both polarimeters with beam and some running time.

present status:

AGS has a "User" setup with a standard high Bdot Siemens Magnet cycle.

The partial snake is setup for this cycle.

Longitudinal emittance reduction in Booster chopping the Linac beam into existing buckets has been exercised. (Linac optimization still needs some time.)

The ac dipole, with a new hardware location and RHIC style low level is nearly complete, already usable. Magnet sharing between tune meter and ac dipole seems ok.

The magnet cycle is designed to allow accumulation of 6 Booster bunches, and so has an injection porch immediately available for polarization measurement.

plan part 1:

optimize the setup using diagnostics other than polarization – emittance, tune measurement.

check that the Booster setup is not deteriorating polarization – this uses polarization measurement in AGS – possibly using the CNI on the injection porch.

measure polarization at the AGS extraction porch.

plan part 2:

search for points of polarization loss. Scan parameters (e.g. snake strength) using the fast feedback from the CNI measuring on the extraction porch.

Use the CNI throughout the cycle to see just where steps in asymmetry occur.