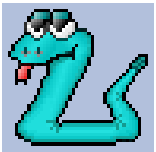


# Goals

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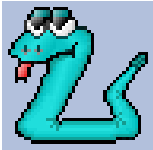
- Trans. pol. protons colliding at  $\sim 100$  GeV per beam ( $P > 50\%$ ).
- Long. pol. protons colliding at  $\sim 100$  GeV per beam ( $P > 50\%$ ).
- Commission acceleration of pol. protons to 250 GeV per beam.



# 🐍 Schedule 🐍

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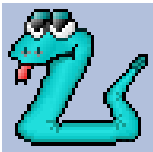
- 🐍 8 Nov: 1 shift shutdown to install AGS polarimeter.
- 🐍 9 → 26 Nov: Au in RHIC; pol protons in AGS.
- 🐍 26 → 29 Nov: Shutdown to change RHIC to pol. protons.  
Run pol. protons in AGS.
- 🐍 30 Nov. → 21 Dec.: Commission pol. protons in RHIC.
- 🐍 22 Dec. → ~ 25 Jan.: Physics with pol. protons.



# ‡ RHC Commissioning Plan ‡

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- ‡ Test injection into  $\beta^* = 3$  m lattice with Au.
- ‡ Commission ac dipole. (with Au?)
- ‡ Set up injection with protons.
- ‡ Set up snakes, flatten orbits.
- ‡ Commission polarimeters with vert. pol. at injection.
- ‡ Use ac dipole to calibrate snakes ( $\nu_s = 0.5$ ).
- ‡ Accelerate pol. protons to 100 GeV; collide beams.
- ‡ Decelerate pol. protons back to injection.
- ‡ Turn off 1 snake at storage to obtain horiz. pol.
- ‡ Calibrate energy at storage (accel through  $\Delta G\gamma = 1$ ).
- ‡ Accelerate pol. protons to 250 GeV.

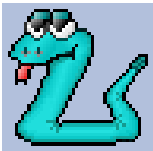


# 🐍 Nominal Snake Settings 🐍

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$\gamma$	$B_{\text{out}}$ [A]	$B_{\text{in}}$ [A]	$\mu$	$\phi$
25.94	-99.98	325.34	179.81°	-45.11°
107.09	-99.98	326.34	179.98°	-45.00°
107.09	-95.98	340.34	179.63°	-52.11°

From Vahid's tracking through measured helices.



## Other links

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AGS commissioning plan:

<http://www.rhichome.bnl.gov/People/huang/pp02/FY02plan.htm>

Previous talks:

<http://www.rhichome.bnl.gov/RHIC/Spin/spinfigs/figslist.html>

<http://www.rhichome.bnl.gov/RHIC/Spin/spinfigs/wwm-rsc1oct01.pdf>

Polarization angles at IR's and polarimeters for different energies:

<http://www.rhichome.bnl.gov/RHIC/Spin/spinfigs/100GeV-1snake.html>

