## **Relativistic Heavy Ion Collider**



### • RHIC is the largest scientific tool at **BNL**

- Ring diameter is  $\approx 0.75$  miles
- Accelerates subatomic particles protons, deuterons, Si, Cu, Au, U to nearly the speed of light
- Collides particles head-on at two interaction points
- RHIC is the first and only world's polarized collider
- In operation since 2000
- Improving performance from year to





# at

<u>Relativistic Heavy Ion Collider</u>

Dmtri Smirnov, Brookhaven National Laboratory





## **Measuring Proton Beam Polarization**