

RHIC Spin Group at BNL

FY2006

FY2007

STAR Physics	Les Bland Akio Ogawa (SBU + Zagreb students)	+ junior staff + post-doctoral associate
	<u>FPD++:</u> jet-like A_N ; $\sigma(\gamma)$	<u>FMS:</u> $A_{LL}(\gamma)$; $A_N(\gamma)$; $g_{Au}(x)$
PHENIX Physics	Gerry Bunce Sasha Bazilevsky	
	$A_{LL}(\pi^0)$	$A_{LL}(\gamma)$
Polarimetry	Sandro Bravar Ron Gill (0.5)	+ post-doctoral associate
	<u>Gas-jet target</u> ; carbon polarimeters	

RHIC Spin Plan (Jan. 2005)

Table 6: *RHIC spin example schedule, 10 physics weeks per year, technically driven. Luminosities are 0.7 times maximum.*

Fiscal year	Spin Weeks	CME(GeV)	P	L(pb ⁻¹)	Remarks
2002	5	200	0.15	0.5	First pol. pp collisions! Transverse spin
2003	4	200	0.3	1.6	Spin rotators commissioned, first helicity measurements
2004	3	200	0.4	3	New betatron tune developed, first jet absolute meas. P
2005	10	200	0.5	14	$A_{LL}(\pi^0, \text{jet})$, also 500 GeV studies
2006	10	200	0.7	32	AGS Cold Snake commissioned, NEG vacuum coating complete
2007	10	200	0.7	88	
2008	10	200	0.7	106	Direct γ
2009	5	200	0.7	35	target complete for 200 GeV;
	5	500	0.7	180	PHENIX μ trig.; W starts
2010	10	500	0.7	266	STAR forward tracker; W physics
2011	10	500	0.7	266	
2012	10	500	0.7	266	Completes 500 GeV target

Personel RHIC Spin Group

- **Gerry Bunce**—Group Leader, RHIC Spin Group; Deputy Group Leader, RBRC Experiment Group (resident Group Leader); Spokesman, RHIC Spin Collaboration (RSC wrote spin proposals for STAR and PHENIX, umbrella group to promote and coordinate program); Chair, Research Plan for Spin Physics at RHIC (2005); polarimetry; PHENIX.
- **Les Bland**—Leader for STAR spin in RHIC Spin Group; PI for Forward Pion Detector, FPD++ (2006), Forward Meson Spectrometer (2007); co-chair, STAR Spin Physics Group 1999-2004; developed case for Endcap Calorimeter at IU.
- **Sandro Bravar**—Leader of RHIC polarimetry, including design and development of pC and pp polarimeters; built AGS polarimeter; advisor for COMPASS at CERN.
- **Akio Ogawa**—STAR, co-chair STAR Spin Physics Group 2004-present; FPD, FPD++, FMS; organizer of RSC 2003-2005; Belle polarized quark fragmentation analysis (RBRC collab.)
- **Sasha Bazilevsky**—PHENIX, calorimeter calibration, software, analysis; leads A_LL analysis group; $\sigma(\pi^0)$, E_T analysis; organizer of RSC 2005-present.
- **Ron Gill**—Polarimetry; Physics Safety Officer