

**Table 2. Possible 5-year RHIC run plan to allow for testing and exploitation of stochastic cooling upgrade**

<b>Fiscal Year</b>	<b>Colliding Beam Species/Energy</b>	<b>Comments</b>
2008	200 GeV d+Au	Ongoing
	200 GeV p+p	Assumes sufficient FY08 funding for p+p run
2009	200 and 500 GeV p+p	Complete longitudinal asymmetry measurements at 200 GeV and develop 500 GeV performance
	200 GeV Au+Au	Permits test of 1 <sup>st</sup> plane of transverse stochastic cooling
2010	500 GeV p+p	1 <sup>st</sup> substantial 500 GeV run allows clear observation of W production signal
	Au+Au at assorted low E	STAR TOF upgrade fully installed; 1 <sup>st</sup> part of energy scan to search for QCD critical point – focus on higher among scan energies, where luminosity sufficient
2011	200 GeV Au+Au	Full implementation of stochastic cooling in place ⇒ long run to reap benefit for rare probes
	200 GeV U+U ?	Utilize EBIS for first measurements with highly deformed nuclei, to increase energy density coverage
2012	500 GeV p+p	Long run in anticipation of 2013 DOE performance milestone on W production, sea antiquark polarization
	Au+Au at assorted low E	Complete energy scan with improved luminosity at very low E from low-energy e-cooling implementation