PHENIX Run-5 Cu-Cu Goals

- Delivered Luminosity: 7nb^{-1}
  - Same as beam use proposal
  - Gives comparable parton-parton luminosity as Run-4 (AuAu)
- Physics Reach:
  - Characterized by two "benchmarks":
  - J/Ψ in North Arm: 9080
  - π^0 p_T max: 19.9 GeV/c
- Run Conditions:
  - Long periods of stable physics running
  - ~70% of delivered luminosity within +/-30 cm vertex cut.

RUN	SPECIES	$\sqrt{s_{NN}}$ (GeV)	$\int \mathcal{L}dt$ (delivered)	p+p Equivalent
5	Cu+Cu	200	7.0 nb^{-1}	27.6 pb^{-1}
	p+p	200	13.1 pb^{-1}	13.1 pb^{-1}
6	Au+Au	62.4	111 μb^{-1}	4.3 pb^{-1}
	p+p	200	15.0 pb^{-1}	15.0 pb^{-1}
7	p+p	200	122 pb^{-1}	122 pb^{-1}
8	Au+Au	200	4140 μb^{-1}	161 pb^{-1}
9	p+p	500	359 pb^{-1}	359 pb^{-1}
10	d+Au	200	91.6 nb^{-1}	36 pb^{-1}