



- MB Goal for Run23: 10B (/20B for Run23+25)
- High-pt (high-luminosity ZDC ~100kHz) Goal: 40nb⁻¹ (all V_Z) for Run23+25
 - assumed luminosity reduction: 40% (vs x3) with Imrad crossing-angle (|V_Z|±30cm)
 - This/next week: Commissioning High-pt program starting with no crossing-angle, no leveling to get high (> 50kHz) luminosity with current beam condition (I-2 stores)

Beam Use Request for Run23+(Run25)

	$\sqrt{s_{ m NN}}$	Species	Number Events/	Year
	(GeV)		Sampled Luminosity	
Second Second	200	Au+Au	$20B / 40 \text{ nb}^{-1}$	2023 + 2025
	200	$p{+}p$	235 pb^{-1}	2024
	200	$p{+}\mathrm{Au}$	1.3 pb^{-1}	2024

Assuming 24 physics weeks / year

year	minimum bias $[\times 10^9 \text{ events}]$		$ vz < 70 \mathrm{cm}$	° L _ J
2014 2016	2	27	19	16
$2023 \\ 2025$	20	40	36	24

- Au+Au at 200 GeV
 - High luminosity for rare probe/high-p_T physics + controlled low luminosity for minimum bias physics
 - high-pT : ZDC ~ 100K Hz (29 weeks)
 - minimum bias : leveled ZDC rate at ~10K Hz (19 weeks)
 - Mix two modes depending on beam condition
 - crossing angle (optional)
- No new detectors to commission