

System	pPb	pp	PbPb
Year	2016	2017	2018
$\sqrt{s_{\text{NN}}}$ (TeV)	8.16	5.02	5.02
Bunch spacing (ns)	100–200	25	75–150
Average pileup	0.25	3	0.0004
Peak instantaneous luminosity ($\text{cm}^{-2} \text{s}^{-1}$)	8×10^{29}	1×10^{34}	6×10^{27}
Integrated luminosity (nb^{-1})	1.73×10^2	3.04×10^5	1.70
Peak interaction rate (kHz)	2×10^3	4×10^4	50