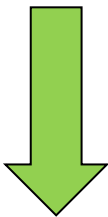


# Pileup Scenarios

Config year	Bunch /Beam	Protons /bunch	$\epsilon_n$ ( $\mu\text{m}$ )	Xing angle ( $\mu\text{Rad}$ )	$\beta^*$ (m)	Peak L ( $\text{cm}^{-2} \text{s}^{-1}$ )	Mean Pileup Events
design	2808	$1 \times 10^{11}$	3.75	280	0.55	$1.0 \times 10^{34}$	25.5
50ns	1404	$1.7 \times 10^{11}$	2.5	270	0.5	$1.7 \times 10^{34}$	86
+LINAC4	1404	$2.5 \times 10^{11}$	3.75	320	0.5	$2.5 \times 10^{34}$	125
+LIU+HL triplet	2808	$2.0 \times 10^{11}$	2.5	420	0.2	$6.9 \times 10^{34}$	173
+LIU+HL triplet	1408	$3.3 \times 10^{11}$	3.75	520	0.2	$6.2 \times 10^{34}$	311



Based on Oliver Bruning's Charmonix-2011 projections

Phase-2

*Late phase-1 pileup scenarios can be much higher than original expectations!*