

## Requirements for Proton Driver

(max bunch spacing  $\sim 50(N_b-1)$  for number of bunches  $N_b > 2$ )

<b>Parameters</b>	<b>Value(basic/range)</b>
Kinetic Energy [GeV]	10 / 5-15
Burst repetition rate [Hz]	50 / -
Number of bunches per burst	4 / 1-6
Bunch spacing [ $\mu$ S]	16 / 0.6-16 *
Total duration of the burst [ $\mu$ S]	$\sim 50$ / 40 - 60
Bunch length [ $\mu$ S]	2 / 1 - 3

## MAIN PARAMETRES OF RINGS

<b>Ring</b>	<b>Parameter</b>	<b>6 bunches case</b>	<b>3 &amp; 1 bunch case</b>
<i>accumulator</i>	Circumference [m]	318.5	185.8
	Nb. of turns of accumulation	400	640/1920
	Working point [H/V]	7.77/7.67	7.35/5.77
	Type of magnets	NC	SC
<i>compressor</i>	Circumference [m]	314.2	200
	Nb. Of turns of compression	36	86
	RF voltage [MV]	4	1.7
	Transition gamma	2.3	2.83
	Working point [H/V]	10.79/5.77	4.21/2.74
	Type of magnets	SC(bendings)	NC
	Time interval between bunches ( $\mu$ s)	12	30