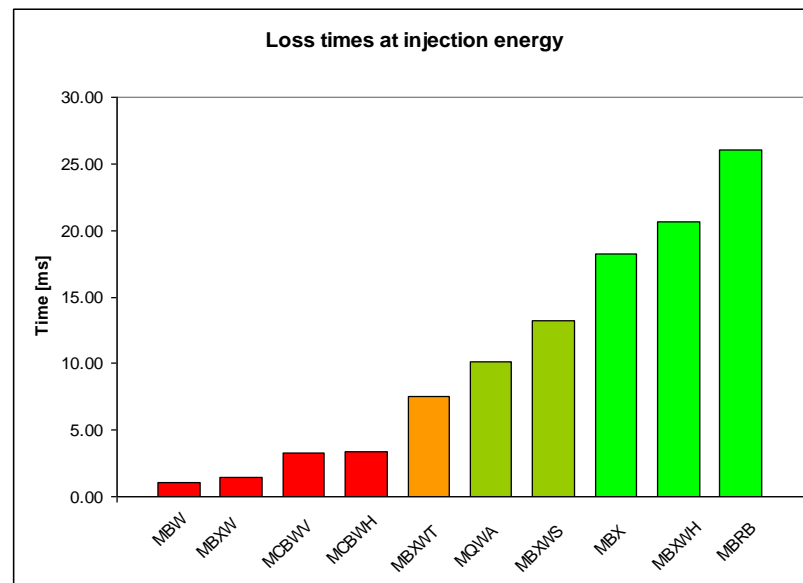


## *SC bending magnets - collision*

	Collision (7 TeV)							
	Short circuit		Constant dI/dt		Max delta V		Quench	
	t for 6 $\sigma$ [ms]	t <sub>loss</sub> [ms]	t for 6 $\sigma$ [ms]	t <sub>loss</sub> [ms]	t for 6 $\sigma$ [ms]	t <sub>loss</sub> [ms]	t for 6 $\sigma$ [ms]	t <sub>loss</sub> [ms]
<b>MB (arc 3-4)</b>	6504	2857	568	250	457	201	16	<b>11</b>
<b>MBRB</b>	601	264	2215	973	389	171	24	<b>16</b>
<b>MBRS</b>	763	334	3072	1349	576	252	28	<b>19</b>
<b>MBRC</b>	165	72	1423	625	165	72	16	<b>10</b>
<b>MBX</b>	91	<b>40</b>	701	308	59	<b>26</b>	13	<b>8.6</b>
MCBH	18552	7658	21478	9434	5258	2270	132	85
MCBV	19246	7949	21292	9352	5279	2281	131	84
MCBCH	4312	1846	8707	3824	1477	643	85	56
MCBCV	6501	2746	12832	5636	2194	951	105	68
MCBXH	2107	912	5340	2345	524	229	63	<b>42</b>
MCBXV	1237	536	5144	2260	308	135	62	<b>41</b>
MCBYH	3565	1547	4504	1978	1025	449	58	<b>38</b>
MCBYV	3554	1542	4490	1972	954	418	58	<b>38</b>

## 450 GeV

	Magnet	$T_{\text{loss}}$ [ms]	Failure
MBW	D3,D4 in IR3, IR7	1.1	Max $\Delta V$
MBXW	D1 in IR1, IR5	1.4	Max $\Delta V$
MCBWV	Warm dipole correctors	3.3	Max $\Delta V$
MCBWH		3.4	Max $\Delta V$
MBXWT	ALICE orbit comp.	7.9	Max $\Delta V$
MQWA	Q4, Q5 in IR3, IR7	11	Max $\Delta V$
MBXWS	LHCb orbit comp.	13	Max $\Delta V$
MBX	D1 in IR2, IR8	18	Max $\Delta V$
MBXWH	LHCb orbit comp.	21	Max $\Delta V$
MBRB	D4	26	Max $\Delta V$



## 7 TeV

	Magnet	$T_{\text{loss}}$ [ms]	Failure
MBXW	D1 in IR1, IR5	1.7	Max $\Delta V$
MBW	D3,D4 in IR3, IR7	6.5	Max $\Delta V$
MBX	D1 in IR2, IR8	8.6	Quench
MCBWH/V	Warm correctors	9.0	Max $\Delta V$
MBXWT	ALICE orbit comp.	10	Max $\Delta V$
MB	Main dipole	10	Quench
MBRC	D2	10	Quench
MQXA/B	Inner triplets	12	Quench (4mm)
MBXWS	LHCb orbit comp.	15	Max $\Delta V$
MBRB	D4	16	Quench

