

BLM Thresholds for Ion Quench Tests

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28th BLM Thresholds WG Meeting

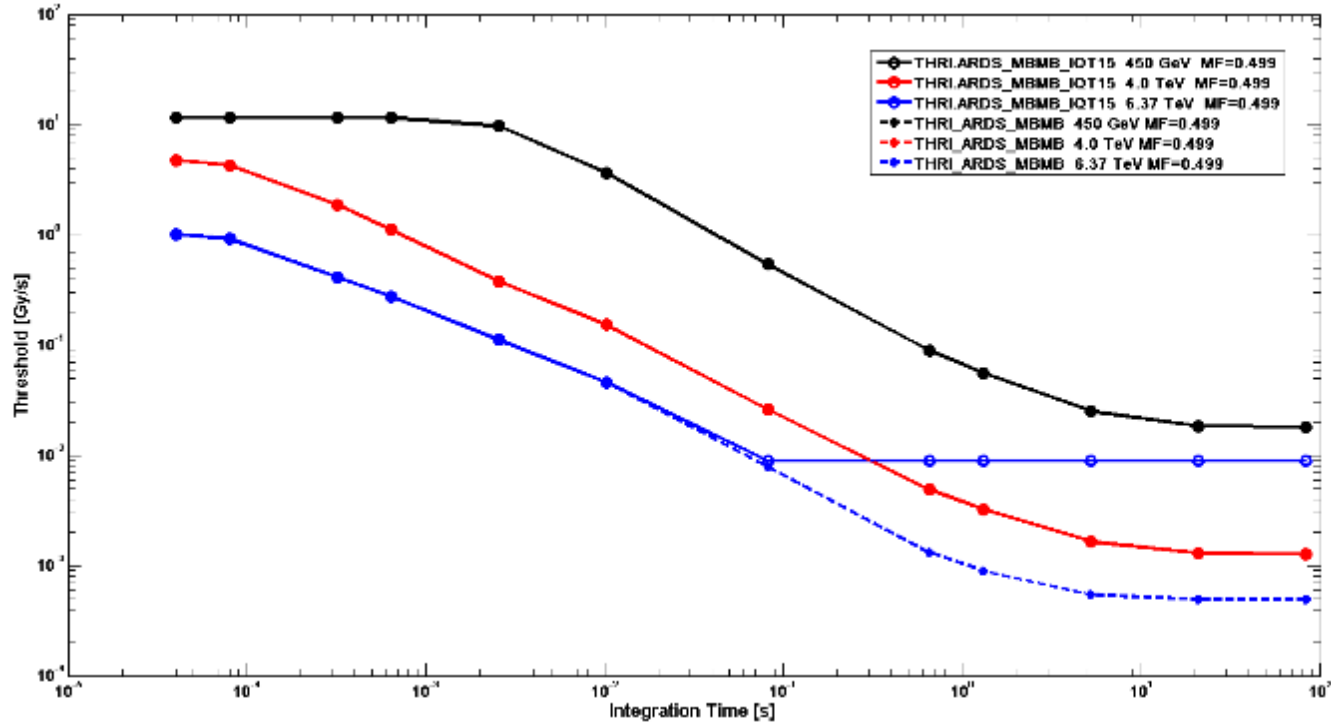
Loss Maps

# name	s [m]	threshold at 135kW [Gy/s]	ratio new/current []	current threshold [Gy/s]	Family	MF	MF*Ratio	
BLMTI.07L7.B2I10_TCLA.A7L7.B2	19755.4600	3.229160E-03	1.38	2.34E-03	THRI.07_7_AB_TCLA	0.4	0.551051	THRI.07_7_AB_TCLA_IQT15
BLMQI.11L5.B2E10_MQ	12895.7000	5.004868E-03	1.45	3.46E-03	THRI.ARDS.P1_MQ	0.499	0.721383	THRI.ARDS.P1_MQ_IQT15
BLMQI.11L7.B2I10_MQ	19560.4200	9.214123E-03	2.66	3.46E-03	THRI.ARDS.P1_MQ	0.499	1.32809	THRI.ARDS.P1_MQ_IQT15
BLMQI.09L7.B2I10_MQ	19653.6600	2.092991E-02	6.05	3.46E-03	THRI.ARDS.P1_MQ	0.499	3.016761	THRI.ARDS.P1_MQ_IQT15
BLMQI.11L7.B1E30_MQ	19562.9200	4.355128E-03	1.56	2.80E-03	THRI.ARDS.P3_MQ	0.333	0.518505	THRI.ARDS.P3_MQ_IQT15
BLMQI.08L7.B2I30_MQ	19684.9800	5.919062E-03	2.12	2.80E-03	THRI.ARDS.P3_MQ	0.333	0.704701	THRI.ARDS.P3_MQ_IQT15
BLMBI.11L7.B0T20_MBA-LEIR	19575.3400	6.335451E-03	7.11	8.91E-04	THRI.ARDS_MBMB	0.499	3.548535	THRI.ARDS_MBMB_IQT15
BLMBI.11L7.B0T10_MBB-MBA	19591.0000	3.469437E-03	3.89	8.91E-04	THRI.ARDS_MBMB	0.499	1.943259	THRI.ARDS_MBMB_IQT15
BLMBI.09L7.B0T10_MBB-MBA	19670.5300	9.120892E-03	10.24	8.91E-04	THRI.ARDS_MBMB	0.499	5.108682	THRI.ARDS_MBMB_IQT15
BLMQI.09L7.B2I21_MQ	19651.6600	5.680893E-03	1.64	3.46E-03	THRI.DS.P2_MQ	0.499	0.818823	THRI.DS.P2_MQ_IQT15
BLMQI.06R3.B2E10_MQTL	6869.0400	3.990946E-03	9.86	4.05E-04	THRI.IP3.P1_MQTL	0.4	3.944597	THRI.IP3.P1_MQTL_IQT15
BLMQI.06R3.B2E20_MQTL	6865.0200	4.282211E-04	1.27	3.37E-04	THRI.IP3.P2_MQTL	0.333	0.423264	THRI.IP3.P2_MQTL_IQT15
BLMQI.05L6.B2I10_MQY	16456.1300	6.026123E-03	2.93	2.06E-03	THRI.LS.P1_MQY_FT	0.4	1.170689	THRI.LS.P1_MQY_FT_IQT15
BLMQI.04L6.B2I10_MQY	16492.3900	4.732327E-03	2.30	2.06E-03	THRI.LS.P1_MQY_FT	0.4	0.919345	THRI.LS.P1_MQY_FT_IQT15
BLMQI.05L6.B2I20_MQY	16453.1000	1.834134E-03	1.18	1.55E-03	THRI.LS.P2_MQY	0.5	0.591656	THRI.LS.P2_MQY_IQT15
BLMQI.04L6.B2I20_MQY	16489.0200	2.158829E-03	1.39	1.55E-03	THRI.LS.P2_MQY	0.5	0.696397	THRI.LS.P2_MQY_IQT15
BLMQI.04L6.B1E20_MQY	16490.6300	1.738547E-03	1.12	1.55E-03	THRI.LS.P2_MQY	0.5	0.560822	THRI.LS.P2_MQY_IQT15
BLM2I.11L7.B2I24_MBA_MBA	19578.3100	1.127393E-02	5.00	2.26E-03	THRI_B2.2_MB	0.333	1.664104	THRI_B2.2_MB_IQT15
BLMEI.11L7.B2I23_MBA	19580.6100	3.218211E-03	1.43	2.26E-03	THRI_B2.2_MB	0.333	0.475028	THRI_B2.2_MB_IQT15
BLM2I.11L7.B2I22_MBA_MBA	19585.5800	3.535547E-03	1.57	2.26E-03	THRI_B2.2_MB	0.333	0.521869	THRI_B2.2_MB_IQT15
BLMEI.11L7.B2I21_MBA	19587.7800	4.118865E-03	1.83	2.26E-03	THRI_B2.2_MB	0.333	0.607971	THRI_B2.2_MB_IQT15
BLMEI.11L7.B2I25_MBB	19592.6300	3.043265E-03	1.35	2.26E-03	THRI_B2.2_MB	0.333	0.449205	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I25_MBA	19656.6600	8.601226E-03	3.81	2.26E-03	THRI_B2.2_MB	0.333	1.269596	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I24_MBA	19659.1600	8.328272E-03	3.69	2.26E-03	THRI_B2.2_MB	0.333	1.229306	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I23_MBA	19661.6600	7.352252E-03	3.26	2.26E-03	THRI_B2.2_MB	0.333	1.085239	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I22_MBA	19664.1600	7.371419E-03	3.27	2.26E-03	THRI_B2.2_MB	0.333	1.088069	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I21_MBA	19666.6600	7.541943E-03	3.34	2.26E-03	THRI_B2.2_MB	0.333	1.113239	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I22_MBB	19671.6600	4.042955E-03	1.79	2.26E-03	THRI_B2.2_MB	0.333	0.596766	THRI_B2.2_MB_IQT15
BLMEI.09L7.B2I21_MBB	19674.1600	5.738210E-03	2.54	2.26E-03	THRI_B2.2_MB	0.333	0.846996	THRI_B2.2_MB_IQT15
BLMEI.11L7.B2I30_MBB	19589.7400	1.172526E-02	5.20	2.26E-03	THRI_B2.3_MB	0.333	1.730723	THRI_B2.3_MB_IQT15
BLMEI.09L7.B2I30_MBB	19669.1600	1.873492E-02	8.30	2.26E-03	THRI_B2.3_MB	0.333	2.765393	THRI_B2.3_MB_IQT15
BLMTI.04L6.B2I10_TCSP.A4L6.B2	16505.5500	9.138452E-02	1.59	5.74E-02	THRI_TCSP	1	1.593175	THRI_TCSP_IQT15

Thresholds for the Ion Quench Test

- Monitors on cold magnets already at quench level
=> Factor 10 increase to RS09 (factor 15 to MBMB family)
 - Ad-hoc factor correction at 6.37 TeV
 - No changes to MF
- Increase to collimators by factor from loss maps

THRI.ARDS_MBMB_IQT15



Proton QT

