

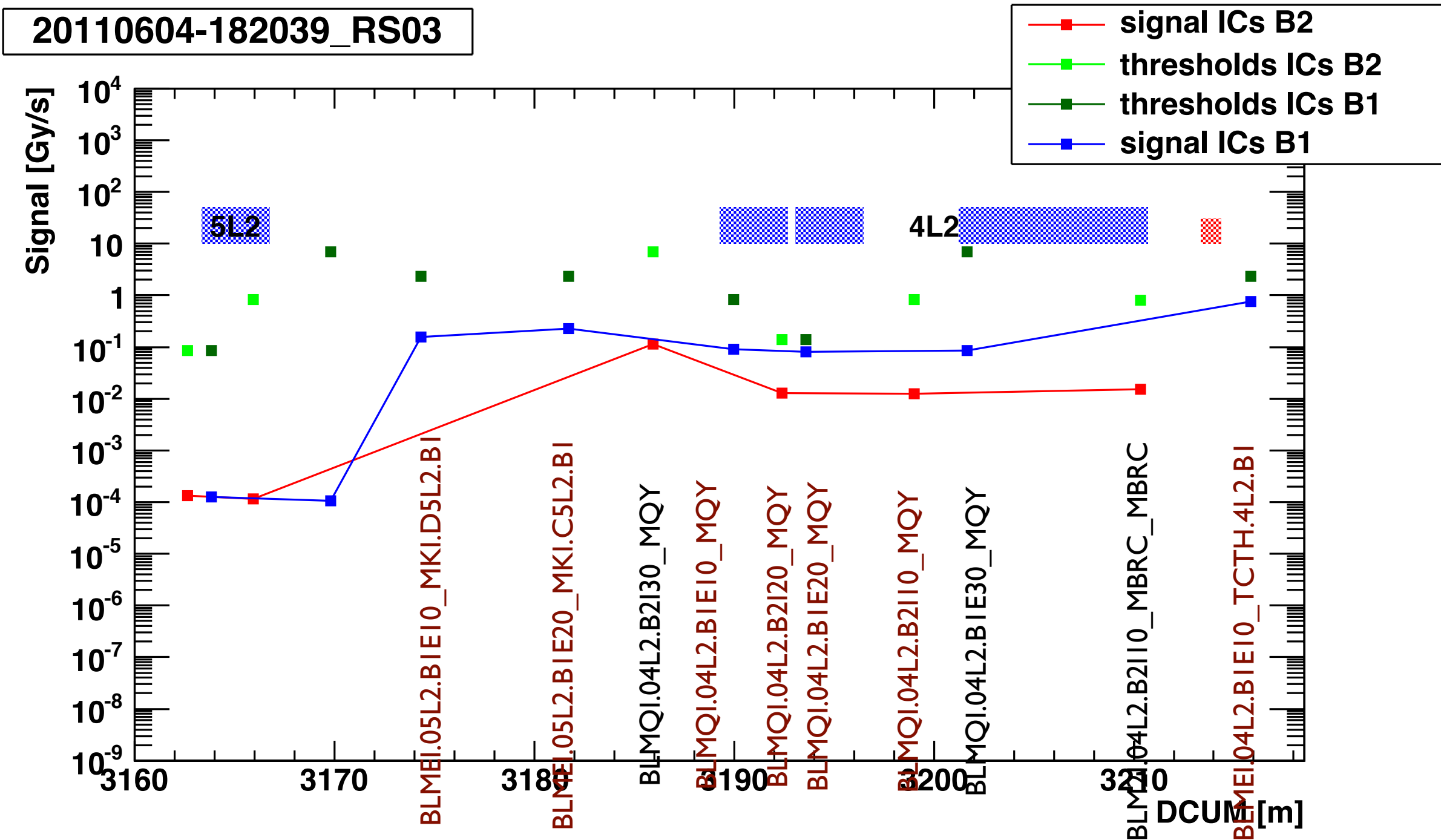
Revision of BLM thresholds affected by UFOs around MKIs

E. Nebot for the BLM team

7 beam dumps analyzed

1 @ 450 GeV. 06-06 13:15

6 @ 3.5 GeV. 31-06 06:22, 31-05 22:20, 02/06 21:50, 03:06 18:24, 04/06 20:20 and 05/06 06:56



Beam Dump at 450 GeV. 06/06 13:15

Monitor name	Dcum (m)	signal (Gy/s)	Thres (Gy/s)	ratio
BLMEI.05L2.BIEI0_MKI.D5L2.BI	3174.321	3.49e+00	2.316	1.50e+00
BLMEI.05L2.BIE20_MKI.C5L2.BI	3181.699	2.69e+00	2.316	1.16e+00
BLMEI.04L2.BIEI0_TCTH.4L2.BI	3215.872	2.10e+00	2.316	9.06e-01



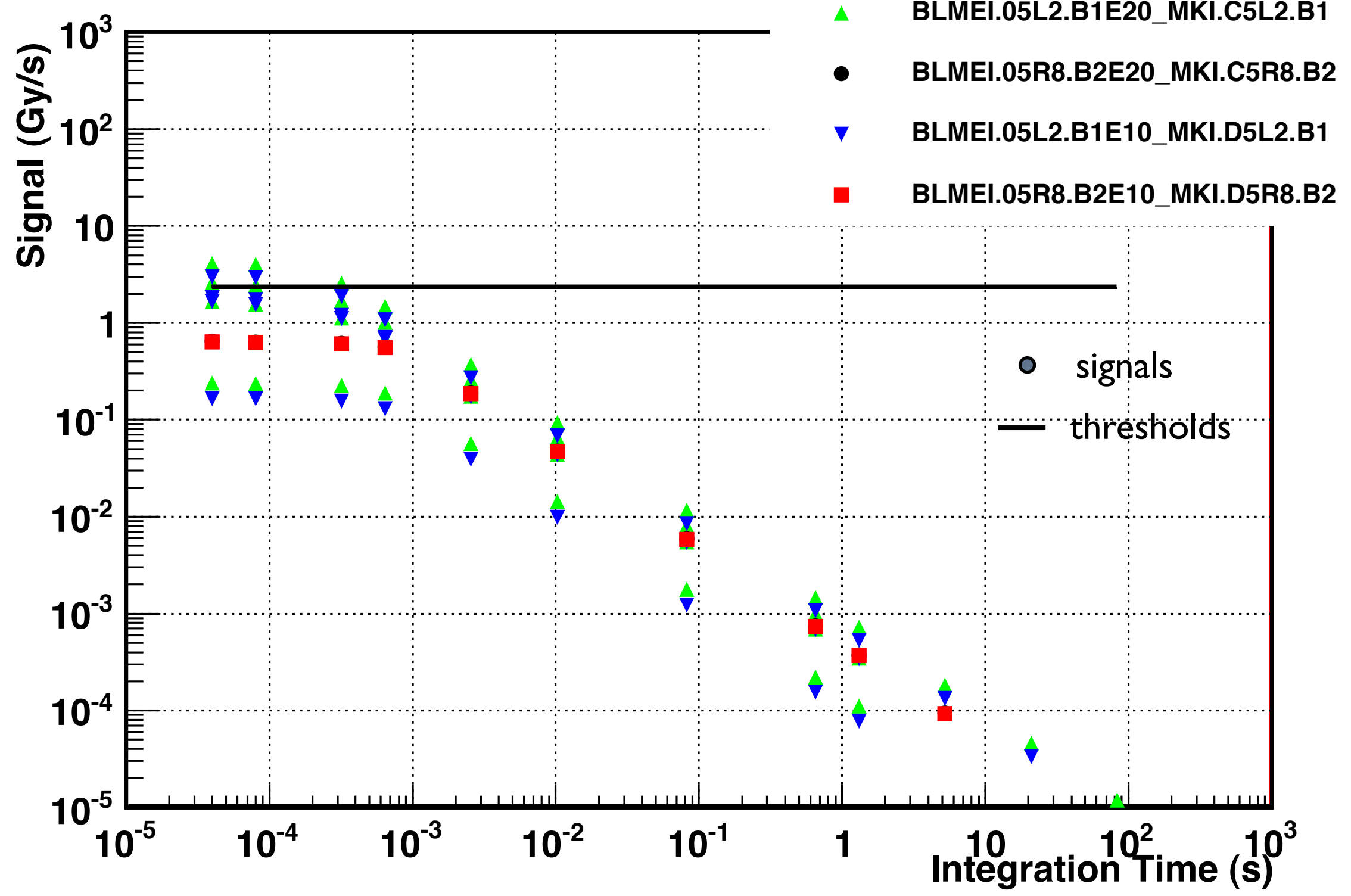
Every other monitor is below 10% of the threshold.

BLMQI.04L2.B2I30_MQY	3185.929	7.30e-01	6.950	1.05e-01	1.05e-01
BLMQI.04L2.BIEI0_MQY	3189.964	5.05e-01	6.950	7.27e-02	7.27e-02
BLMQI.04L2.BIE20_MQY	3193.580	2.72e-01	4.702	5.78e-02	5.78e-02
BLMQI.04L2.BIE30_MQY	3201.657	2.75e-01	6.950	3.96e-02	3.96e-02

Monitors protecting MKIs. Dumps at 3.5 TeV

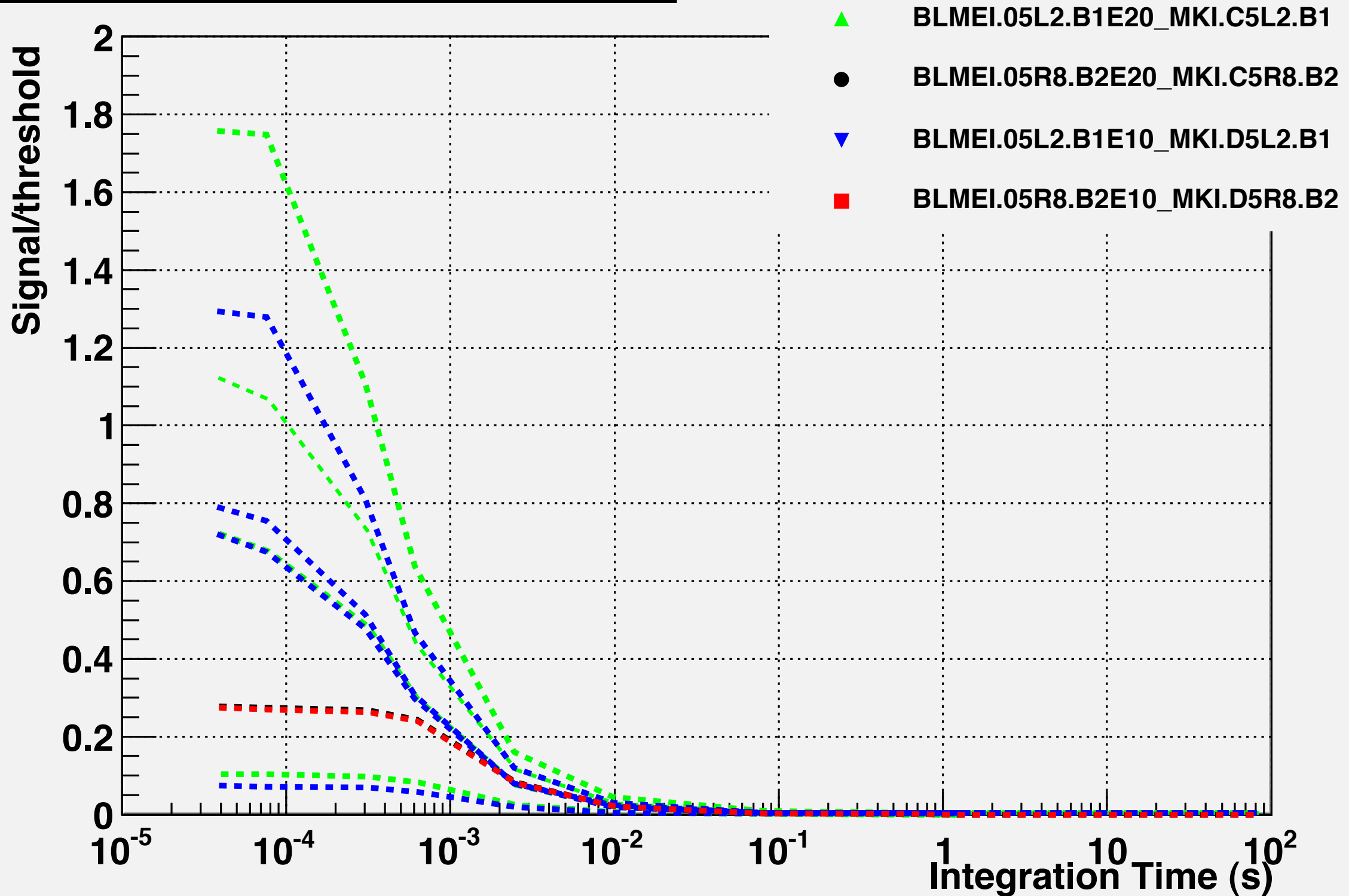
Thresholds set to 10% (MF =0.1) of the maximum allowed by the electronics (23.17 Gy/s).
Limiting factor come from the small integration times.

Signals during UFOs



Monitors protecting MKIs. Dumps at 3.5 TeV

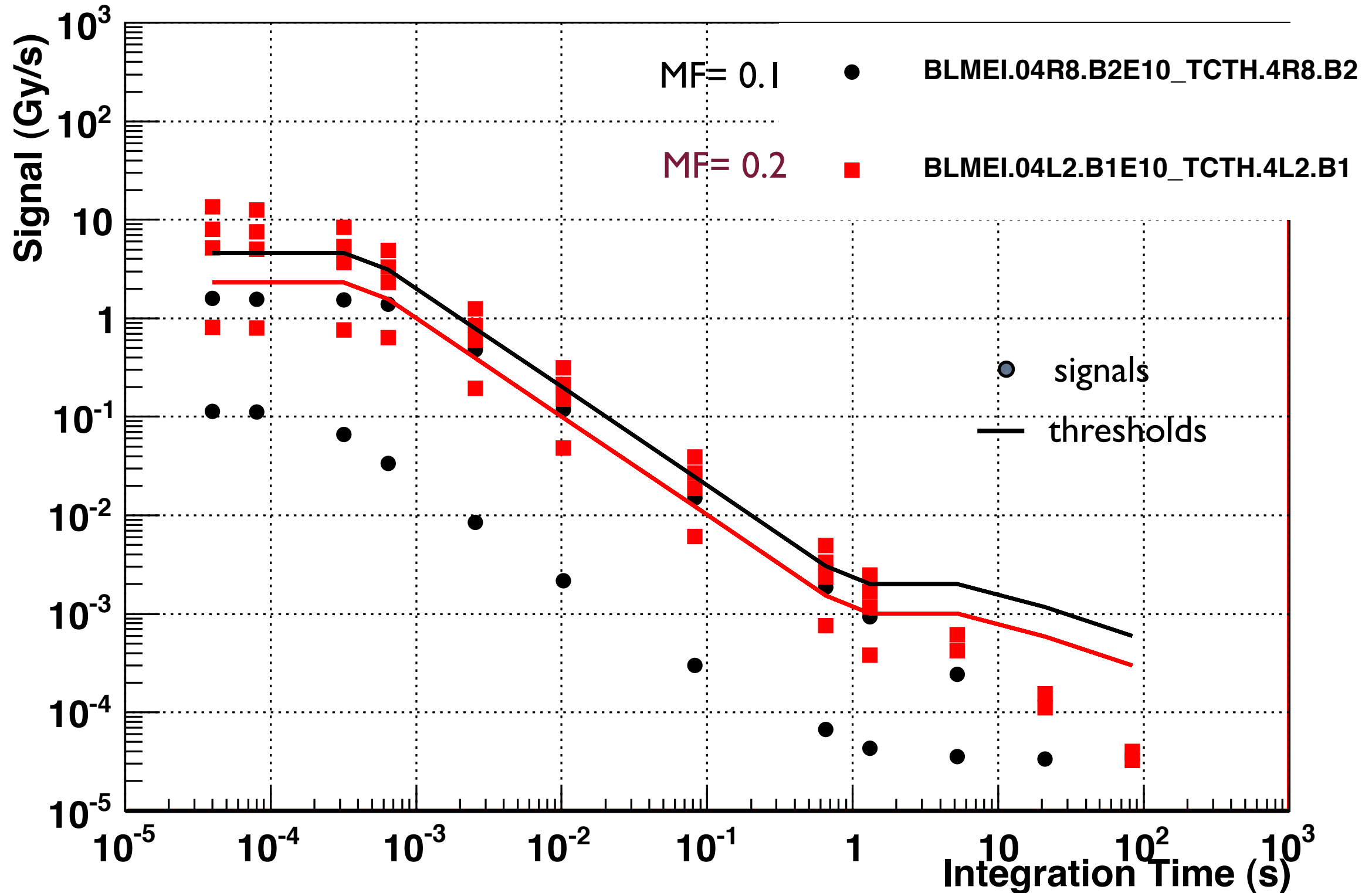
signal/threshold during UFOs



Monitors protecting TCTHs. Dumps at 3.5 TeV

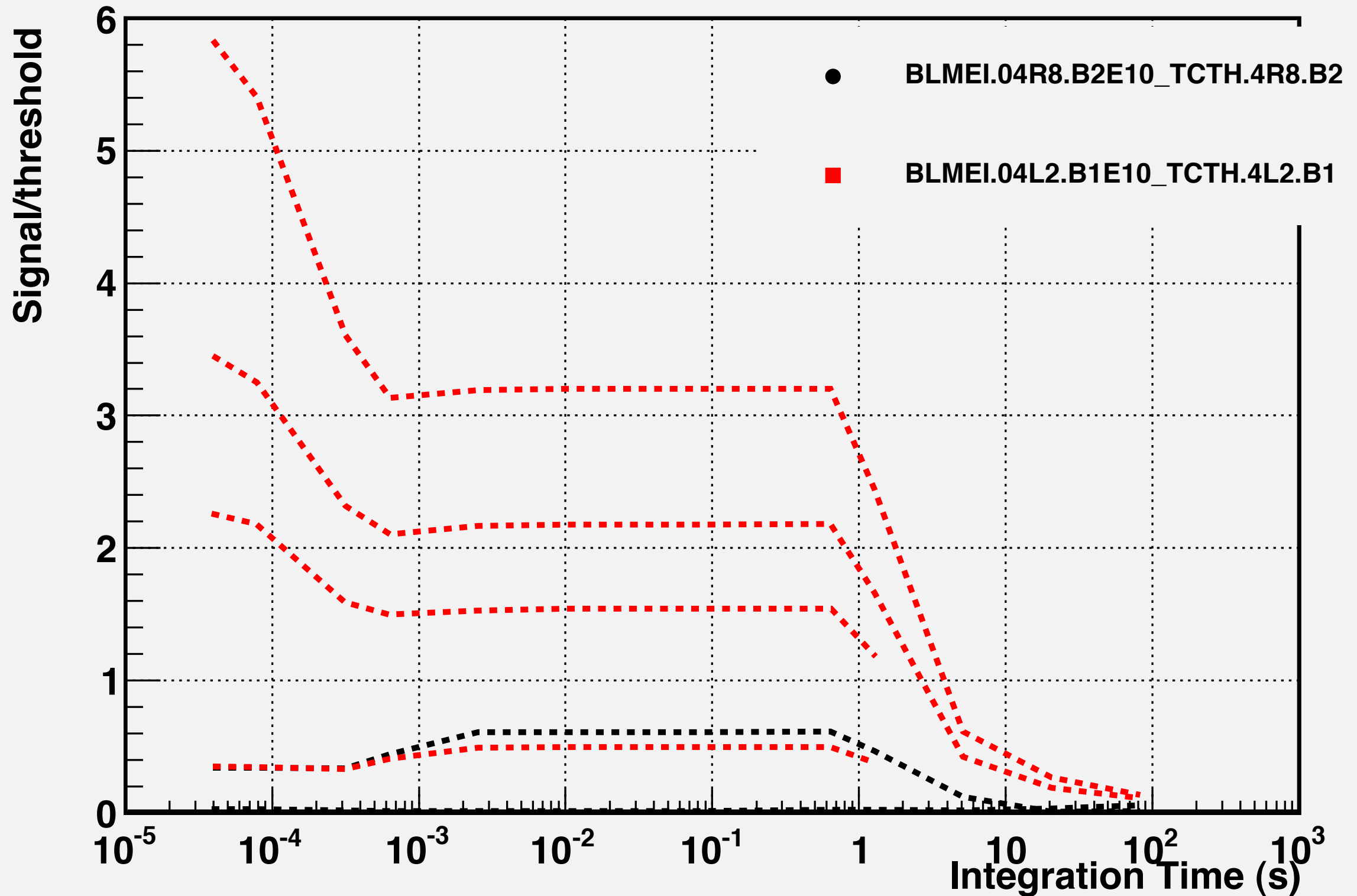
In this case the limitation also comes from the long integration times. It would be necessary to push up the whole curve. We currently have a factor 10 (5) margin up to damage limit.

Signals during UFOs



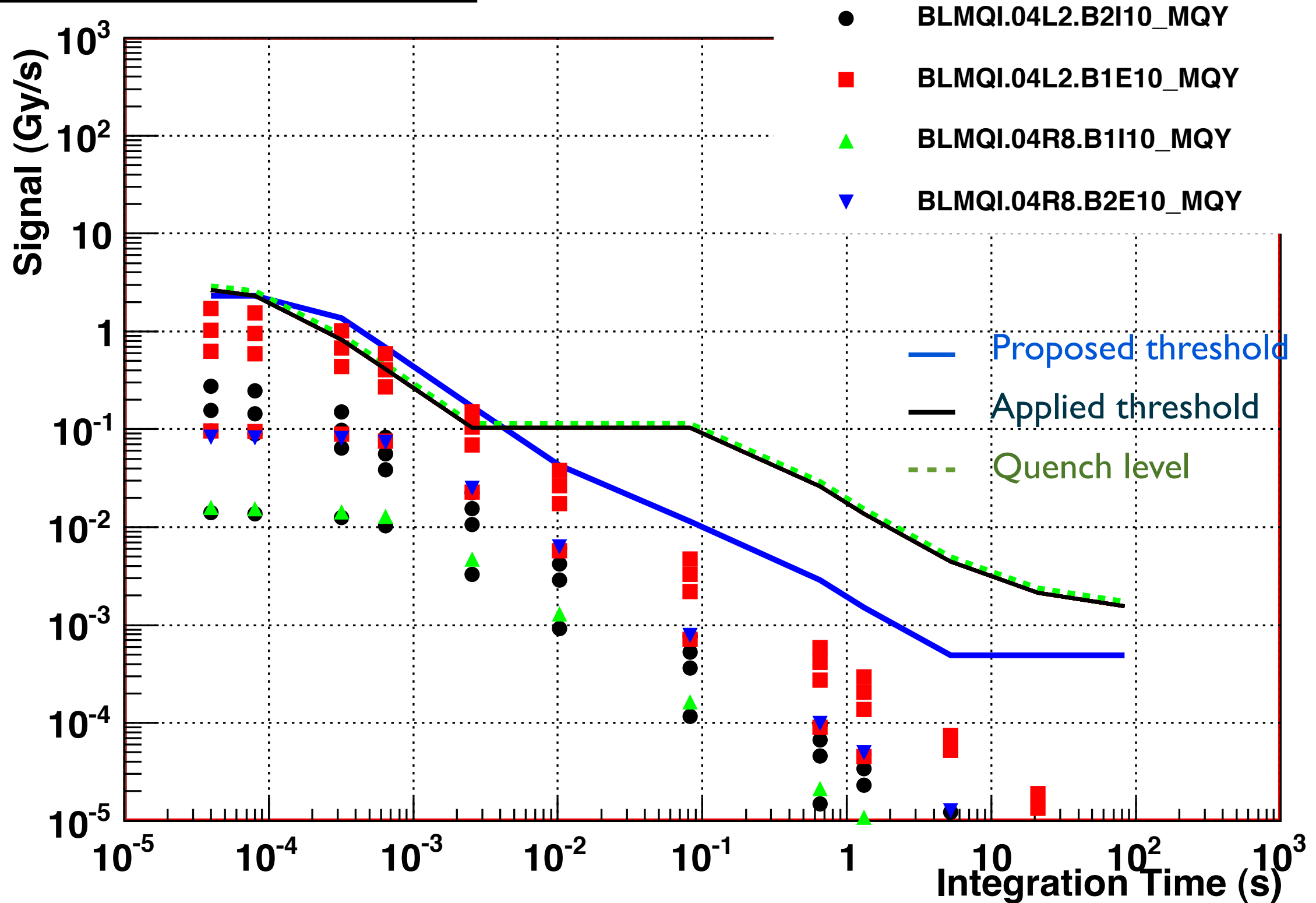
Monitors protecting TCTHs. Dumps at 3.5 TeV

signal/threshold during UFOs



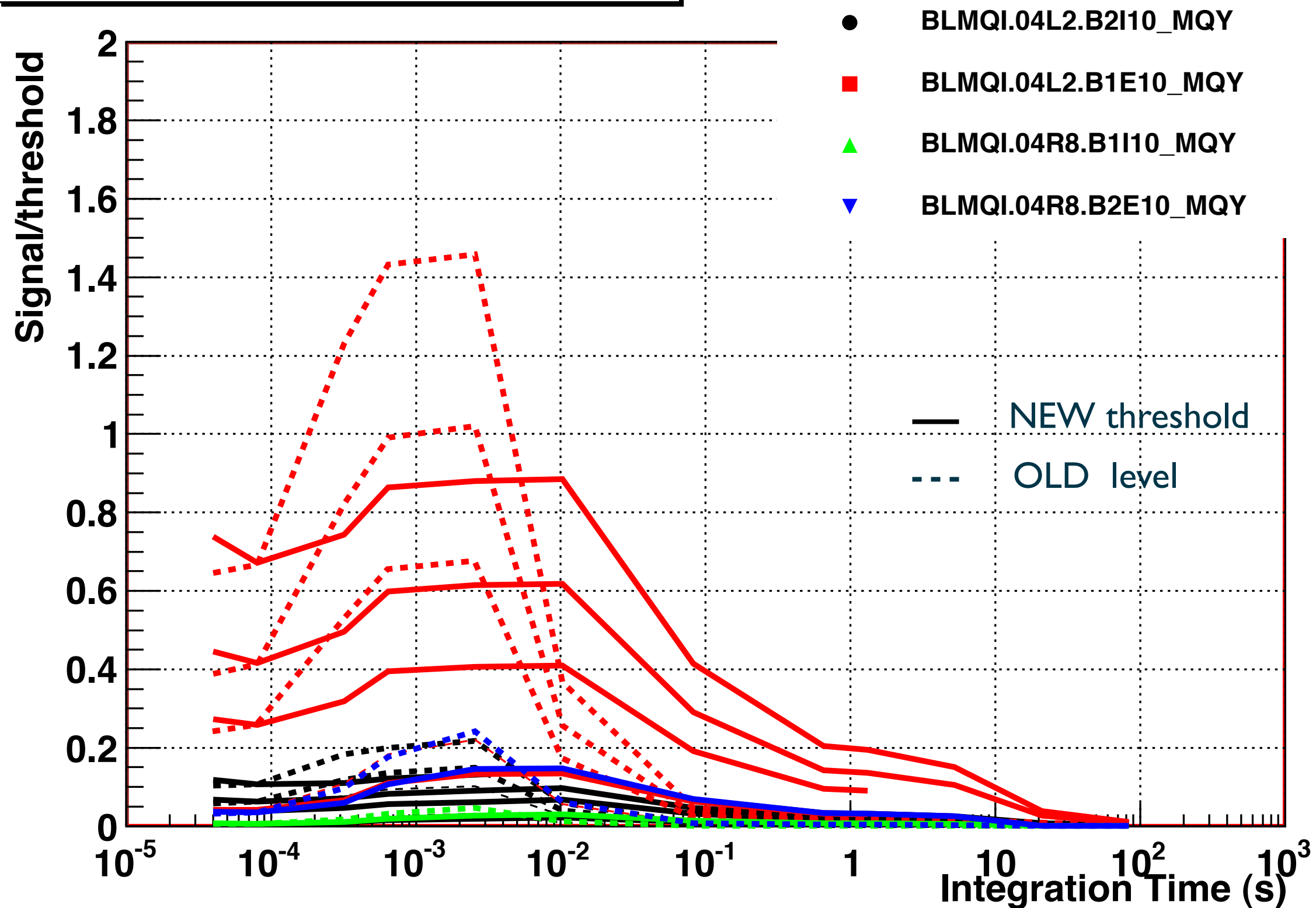
Monitors protecting MQYs (PI). Dumps at 3.5 TeV

Signals during UFOs



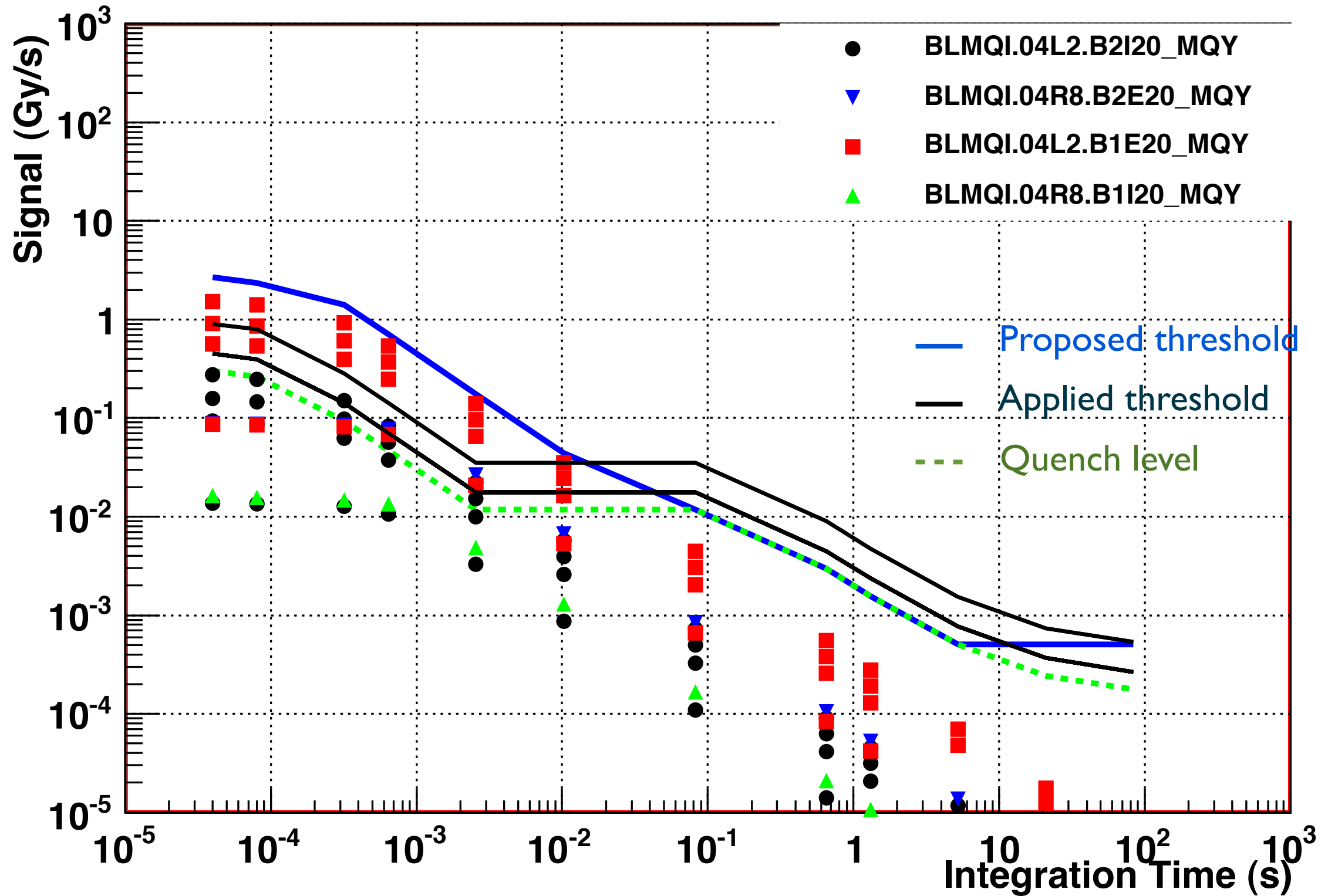
Monitors protecting MQYs. Dumps at 3.5 TeV

signal/threshold during UFOs



Monitors protecting MQYs (P2). Dumps at 3.5 TeV

Signals during UFOs



Monitors protecting MQYs . Dumps at 3.5 TeV

signal/threshold during UFOs

