

Bernd Dehning

Commissioning of BLM Interlock Feature

- Activation of BLM connection to the BIS
- Beam energy set to 7 TeV, most sensitive
- Identification of channels which take beam permit away and repair
- Identification of difference between thresholds and noise levels, check all channels (query of channels in database, load to high, under investigation)
- Means to reduce the beam permit changes:
 - Investigation of the threshold settings
 - 40 us channel set to a high threshold value
 - Lowering of bias current
 - Gain of a factor 6 going from 7 to 5 GeV
 - Disabling of channels
- About two weeks needed for this operation, masking of channels required in case of LHC operation

Timber Records Beam Interlock

Data Source: Measurement Database (PRO) Elapsed: 106ms User: guest

Query Output Query Variable Hierarchies Variable Search Variable Lists About

Query Output

Variable Statistics between 2008-09-16 22:02:00 and 2008-09-17 08:02:00 (UTC_TIME)

Variable Name	# Values	MIN Timestamp	MAX Timestamp	MIN Value	MAX Value
CFV-SR1-BLMC:BEAM_PERM_TC_LINE_M	0				
CFV-SR1-BLML:BEAM_PERM_TC_LINE_M	0				
CFV-SR1-BLMR:BEAM_PERM_TC_LINE_M	1974	2008-09-16 22:04:05.000	2008-09-17 08:01:29.000	0	1
CFV-SR2-BLMC:BEAM_PERM_TC_LINE_M	222	2008-09-16 22:06:00.000	2008-09-17 07:58:34.000	0	1
CFV-SR2-BLML:BEAM_PERM_TC_LINE_M	1938	2008-09-16 22:02:44.000	2008-09-17 08:01:47.000	0	1
CFV-SR2-BLMR:BEAM_PERM_TC_LINE_M	8	2008-09-16 22:32:11.000	2008-09-17 07:01:07.000	0	1
CFV-SR3-BLMC:BEAM_PERM_TC_LINE_M	2	2008-09-17 02:27:39.000	2008-09-17 02:27:40.000	0	1
CFV-SR3-BLML:BEAM_PERM_TC_LINE_M	24	2008-09-17 00:25:19.000	2008-09-17 07:01:15.000	0	1
CFV-SR3-BLMR:BEAM_PERM_TC_LINE_M	2	2008-09-16 22:14:59.000	2008-09-16 22:15:00.000	0	1
CFV-SR5-BLMC:BEAM_PERM_TC_LINE_M	0				
CFV-SR5-BLML:BEAM_PERM_TC_LINE_M	10	2008-09-16 22:10:40.000	2008-09-17 05:58:33.000	0	1
CFV-SR5-BLMR:BEAM_PERM_TC_LINE_M	2	2008-09-17 02:06:20.000	2008-09-17 02:06:21.000	0	1
CFV-SR6-BLMC:BEAM_PERM_TC_LINE_M	20	2008-09-16 22:49:33.000	2008-09-17 07:54:31.000	0	1
CFV-SR6-BLML:BEAM_PERM_TC_LINE_M	0				
CFV-SR6-BLMR:BEAM_PERM_TC_LINE_M	12	2008-09-16 23:16:10.000	2008-09-17 03:55:15.000	0	1
CFV-SR7-BLMC:BEAM_PERM_TC_LINE_M	0				
CFV-SR7-BLME:BEAM_PERM_TC_LINE_M	4	2008-09-17 04:42:49.000	2008-09-17 06:22:19.000	0	1
CFV-SR7-BLML:BEAM_PERM_TC_LINE_M	0				
CFV-SR7-BLMR:BEAM_PERM_TC_LINE_M	0				
CFV-SR8-BLMC:BEAM_PERM_TC_LINE_M	50	2008-09-16 22:46:37.000	2008-09-17 07:37:26.000	0	1
CFV-SR8-BLML:BEAM_PERM_TC_LINE_M	0				
CFV-SR8-BLMR:BEAM_PERM_TC_LINE_M	112	2008-09-16 22:10:10.000	2008-09-17 07:49:07.000	0	1
CFV-SX4-BLMC:BEAM_PERM_TC_LINE_M	0				
CFV-SX4-BLML:BEAM_PERM_TC_LINE_M	0				
CFV-SX4-BLMR:BEAM_PERM_TC_LINE_M	2	2008-09-17 02:24:28.000	2008-09-17 02:24:29.000	0	1

Select All Select None Remove Selected

13:54:15 - ...Found Statistics for 25 of 25 Variables

BLM IP 2 left Channel with Noise

