

From: Nikolai Bondar
Sent: 20 March 2019 19:32
To: Martin Richard Jaekel; Aleksei Chubykin; Oleg Maev; Davide Boscherini; Giulio Aielli; Katerina Kuznetsova; Nikolaos Zaganidis; Roberto Guida; Alan Peyaud; Yan Benhammou; Beatrice Mandelli
Cc: Giuseppe Pezzullo
Subject: RE: Cosmic Trigger @ GIF - proposal of LHCb option
Attachments: proposal-for-trigger.7z

Dear gentlemen,

I have prepared an option for first step of cosmic trigger just in this attachment. There is our proposal (Aleksei and me) .

First step is better start with 4 chambers M1 R4. Everything is pretty simple and a small number of equipment is needed:

1. - 4 chambers M1R4
2. - 4 signal cables exactly like for M4R4) chamber side with 3 connectors
3. - 4 control cable or 1 control cable with 3 short jumpers from chamber to chamber, but in this case you need to set addressing jumpers in the front-end boards.
4. - 1 IB board type M4,5R4 and corresponding transition board (TB)
5. - 4 LV cables for chambers (special connector)
6. - Power supply for +3.5V 7A min.
7. - Crate for IB with power (+5V)
8. - Crate with Service Board
9. - Computer with program for testing FEBs.

From Aleksey - On GIF we have crate with 4 detector SB, PDM, and multi-port Systec. It is ready for work, now we use this crate for Malter effect studies.

Oleg. can you give one signal cable for M5R4 chambers as a sample to prepare 4 signal cables.

Also they need 4 LV cables and 2 HV cables for M1.

I don't know is it possible to use M1 HV power supply for GIF?

To connect the signal cable to IB board we need IB and TB-IB boards and IB-ODE crate with power (If I am not mistaken +5V). Also I did not find the files with cable connection to the TB connector. It should be a paper copy in our office on point 8 in the file box with other papers. this papers we used for detector installation and I used that documents for searching lost connection. The best way is to compare chamber positions on the wall and position on the in the TB. Also output connector will be written. If it is pretty complicated for me, send me photocopy of the paper.