Proton Radius Measurement

Fiber detector test

Friday, 19. October 2018

Christian Dreisbach

COMPASS Weekly Meeting
Fiber detector test

Stations

- Two stations with two crossed fibres each
- Size/Length: 8cm x 8cm
- Stored and installed in a light-tight box
- General detector test (efficiencies, coincidences)
Fiber detector test
Installation
Fiber detector test
Installation
Fiber detector test
Trigger
Fiber detector test
First data

- 4 fibers
- Read out on both sides
- 8 SiPMs (channels)
- 2 broken

FM00X1__SADC nbr of entries

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<th>FM00X1__sadc_ch</th>
<th>Entries</th>
<th>Mean</th>
<th>RMS</th>
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Fiber detector test
First data

SI01X1___ch

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Fiber detector test

Outlook

• Correct latency and threshold
• Check trigger setup
• DAQ still unstable - investigate
• Check recorded data
• Data taking until end of run (remotely)