

MUV1/2 Readout in 2014

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MUV Readout

- In 2012 run: **MUV2 readout with LAV-FEE modules**
 - Problems with the length of the pulses in the TEL62 (could in principle be solved).
 - Time-over-threshold does not give optimum pulse height resolution for MUV1/2.
- Beginning of this year: **Test of CREAM readout** for MUV pulses:
 - MUV1/2 pulses much shorter than LKr pulses (~40 ns/~80 ns)
→ old **NA48 HAC shaper modules** needed.
 - Otherwise tests were fine.
For high-rate MUV1 channels probably oversampling needed.

MUV Readout with CREAMs in 2014

What is needed for MUV2 (and MUV1?) CREAM readout in 2014?

- **CREAM boards** (32 ch. each):

- MUV1 (176 ch.) + MUV2 (88 ch.) → **3 + 6 = 9 CREAMs**

- LKr will have O(10) spares + 5 usable prototypes



- **Crate** with custom backplane

- borrowed from LKr or obtained from electronic pool



- **NA48 HAC shapers** (16 ch. each):

- ≥15 boards + 1 prototype available, but need to be tested.



- Schematics still available for future further production.

- Two NIM crates for shapers available.



- **TTC interface, VME bridge:**

- To be obtained from the electronic pool.



MUV Readout with CREAMs in 2014

What is needed for MUV2 (and MUV1?) CREAM readout in 2014?

- **Switch** to connect CREAM boards: to be bought. (✓)
- **Cables & Connectors:**
 - To be bought and assembled. (✓)
- **Control PC** will be obtained. (✓)



MUV2 and possibly MUV1 can use CREAM readout in 2014