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Development of a new BPM electronic system for the PETRA pre-accelerator chain

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There is a large range of bandwidth needed for the BPM electronics for the Petra pre-accelerators. The bunch length will vary from the ns to ps range. Also a new bunch burst mode is requested for the Petra IV first turn operation. The new BPM electronics is developed as a universal peak detector hardware in a mtca.4 environment. Automatic adjusted delay lines or 2x2 cross point switch technique will be tested for self calibration. The goal is a universal mtca.4 based electronics for button BPMs. The limitation of this detector electronic is the bunch spacing of at least 100ns.

Primary authors: LORBEER, Bastian; DUHME, Hans-Thomas

Presenter: DUHME, Hans-Thomas

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