

Notes from the 7/12/05 MI BPM Upgrade Meeting  
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These notes can be found in Beams docDB #1526.

#### 1. MI BPM Review, 7/25/05:

We discussed some possible topics/agenda for the MI BPM review, to be held on July 25. At the time of the MI BPM meeting the charge, reviewer, date, time and agenda were not yet known. Since then there has been some progress on all of these and email has gone out to the MI BPM mailing list and to the reviewers with additional information. For the record some of the possible topics/talks that we discussed at the July 12 MI BPM meeting are given here:

Topics:

- Project Management – Bob and Steve
- Cost and Schedule – Bakul, Steve, Bob
- Requirements – Dave, Alberto
- Applications - Dave, Brian
- Analog Front-end – Manfred
- Timing Board – Bill, Vince
- Front-end software – Margaret, Luciano, Kurt
- Overall design philosophy – Bob

#### 2. MI30 test setup : Manfred

- Manfred showed some measurements that were made with the MI30 setup (BPM301?) in the 53 MHz wideband and 2.5 MHz wideband modes. Plots of I, Q, magnitude, phase of A and B as well as  $(A-B)/(A+B)$  and  $A+B$  were shown for both cases. These plots can be found in Beams docDB #1526. Though the gain was not optimized for the size of the signal coming to the front end of the Echotek board the measurements look quite reasonable. There were some suggestions to try the measurements at injection, change the gain to more appropriate values, do narrow-band measurements, etc.

- Much effort will be going to the prototype transition board during

the next weeks. A prototype will likely be ready in 6-8 weeks.

### 3. AOB

- We discussed a little the VME subracks and what strategy to use to procure them for the project. We decided to take the Tevatron BPM VME subrack specification, modify as appropriate for the MI BPM project, and go from there.

- We also had a small discussion on the MVME processors. The memory requirement and model of MVME are still under active discussion.

- We will meet next week to discuss the upcoming review.