

Notes from the 1/25/05 MI BPM Requirements Meeting

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These notes and previous weeks' notes can be found in Beams docDB #1526.

1. TeV BPM Upgrade -- Jim Steimel

- Jim Steimel's slides can be found in Beams docDB #1542 and those interested in details should refer to the slides.
- Jim went through the uses and requirements for the new system, including some of the reasons for the upgrade. Next he discussed the main measurement modes (closed orbit, turn by turn, first turn) and how the new system focusses on the 53MHz component of the TeV to make the measurements. And how the system is event and state driven and not self-triggering.
- Jim showed some of the details of the new system, including the front-end analog filter, the digitizing and digital signal processing, and the VME front-end and ACNET interfaces.
- Jim next showed some of the accuracy and precision requirements for the new system and how well (or not) the new system has been shown to actually achieve these requirements. The system is still being commissioned so in some cases the information is not yet known.
- There were questions about some of the capabilities and functionality of the new system, including the switching time of going from turn-by-turn mode to closed orbit mode, or vice versa. These numbers are not all known well yet, but will be measured.

2. AOB

- Alberto Machionni and Dave Capista will work on updating the requirements for the MI BPM. We will meet on Tuesday Feb 1 at 10:00 if there is enough progress to warrant it. Otherwise we will meet Tuesday Feb 8 at 10:00.