

BigBite Design Items and Work List

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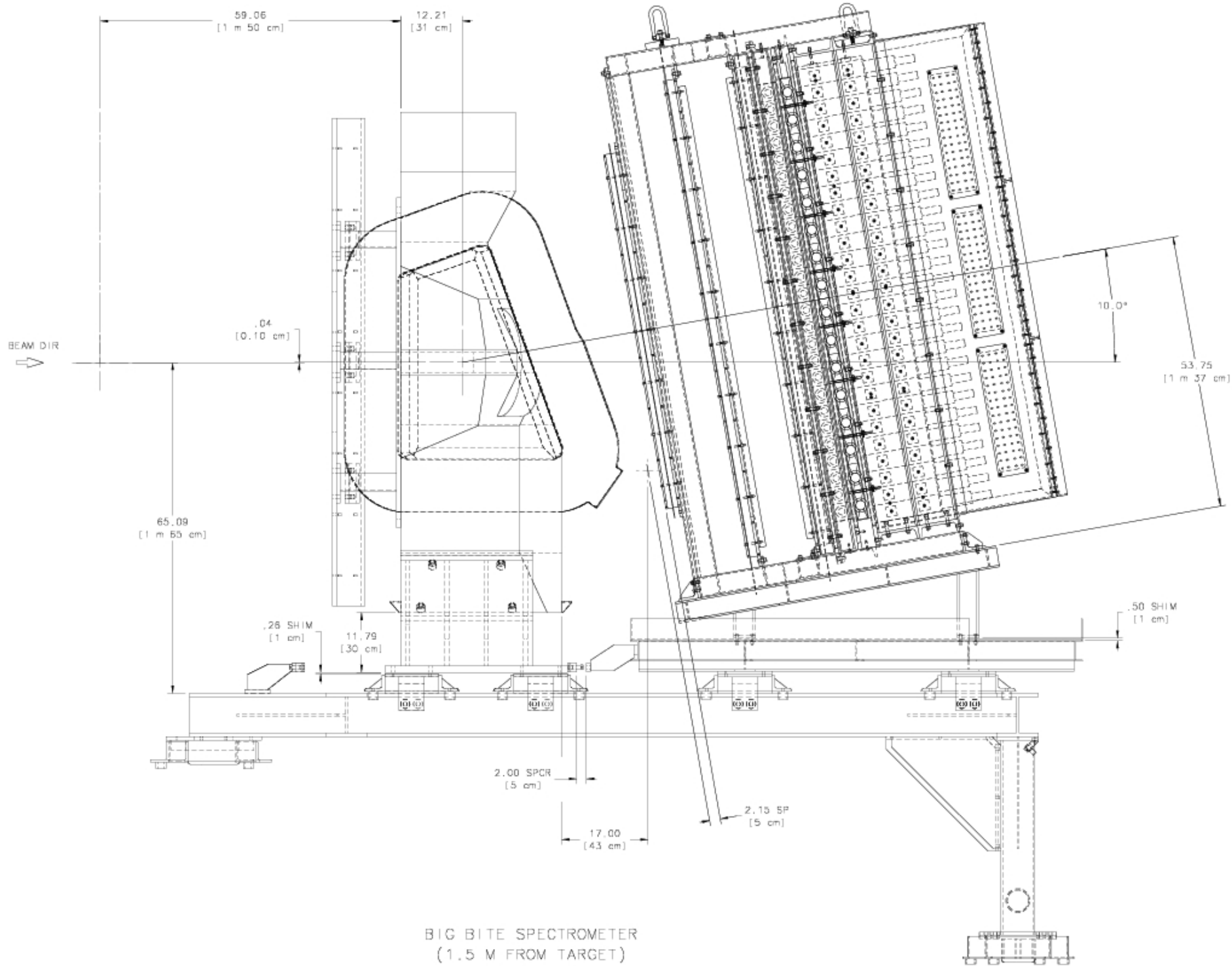
- A list of BigBite design items in order to run the transversity experiments.
- A work list of BigBite tests in the Test Lab before moving the detectors into Hall A.

Goal :

A full scale cosmic ray test of the BigBite package in the Test Lab before moving BigBite detectors to Hall A.

BigBite Design Items

- Front twin wire chamber mount frame.
- Gas Cherenkov detector and its mount points on the detector frame.
- Changes on the detector frame and the mount points on BigBite stand.
- BigBite magnet support right foot (design done).
- Collimation pieces inside the BigBite magnet.
- BigBite front collimator and
- BigBite front collimator-optics slit.



BIG BITE SPECTROMETER
 (1.5 M FROM TARGET)
 16 JUN 05

- Changes on BigBite magnetic field shield piece.
- BigBite detector shielding hut.
- Transversity experiments, downstream beam pipe 6" section (done ?).
- Upstream beam section/entrance to the scattering chamber.

A work list of BigBite detector test in the Test Lab

We've made a lot of progresses since the last collaboration meeting.

Next step:

0. Have enough electrical power at the test lab to power all crates from the same outlet.
1. Test new pre-Amp cards with the cosmic ray set up.
We now have 62 new cards, need 82 more. Delivery has been slow.
2. Have a better solution of grounding for chamber-2 and chamber-3.
3. Make 256 short ribbon cables (32 feet each), and 64 long ribbon cables (100 feet each).
4. Three chamber cosmic ray test with Fastbus readout.
5. Remove chamber-2, ship it to UVa.

6. Set up trigger, according to the Kalyan plan.
7. Cosmic ray run with pre-shower+shower.
8. Fix 5 shower blocks.
9. Re-evaluate the performance of pre-shower blocks.

10. Mount chamber-2 back into the detector package.
11. Three chamber + shower/pre-shower cosmic ray test, show clear tracks.

12. New twin chamber-frame ready. Test mount.
13. Gas Cherenkov ready. Test mount, cosmic ray check. (July 2007)

14. Finish a complete package cosmic ray test before October 2007.

Quote of the day:

It's one thing to have all the components working
and another to have them all working together.