

SBS Newsletter #2

April 26th, 2010

Letter from the Editor

The newsletter will be a forum for progress reports updating the collaboration on our response to the Technical Review's [report](#). At the [March 2010 SBS meeting](#), response to the TR was the main topic of the discussion. A [summary](#) of these discussions has been written and people have agreed to lead groups to address and respond to specific questions in the TR's report. By the middle of July 2010, each group will contribute a report that will be a part of the response to the TR. A [wiki](#) has been setup for the SBS experiments. Right now it is barebones, but please use it.

Upcoming Conferences:

- [Exclusive Reactions at High Momentum Transfers IV](#), May 18-21, 2010, Newport News, VA, US . Early registration deadline April 15th.
- [12th International Conference on Meson-Nucleon Physics and the Structure of the Nucleon \(MENU2010\)](#), May 31-June 4, 2010, Williamsburg, VA, US. Deadline Mar 5th
- [International Nuclear Physics Conference 2010 \(INPC2010\)](#), Vancouver, Canada 7/4/10- 7/9/10. Abstract deadline March 15.
- [Gordon Conference on Photonuclear Reactions](#), August 1-6, 2010, Tilton, NH, US .

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Update on GEM (E. Cisbani)

1. GEM foils: CERN expects to deliver the foils for the first 40x50 cm² module at the end of April .
2. electronics: the VME controller/ADC prototype has arrived (see Fig. 1) and our collaborators in Genova are testing it. Initial visual inspection found a few minor hardware bugs that have been fixed. Presently testing the power consumption on isolated sectors of the VME module.



Fig. 1: The GEM VME controller/ADC prototype.

Update on SBS magnet (J. LeRose)

We have made contact with the engineer at BNL who will be our main contact in the property exchange. He says that we should probably plan on visiting BNL in the late summer, given that we won't be able to move anything till the fall anyway. The magnets are easy. Re power supplies, they have several, but they are old, refurbished in the 80's. We will need to interface them with our controls. He recommends we bring a magnet power supply engineer when we visit. The magnets will be disassembled into 18 ton pieces, 5-6 trucks per magnet. He estimates 100m-h per magnet to ship = \$10k. He also says the equipment is not going anywhere so we don't need to hurry. He also promised to tell us if there's any other interest. Here at JLab, Robin Wines has been assigned the task of doing the TOSCA modeling for the SBS magnet. It should be the middle of May before we see the first results.

Update on BigCal (M. Jones)

In response to TR recommendation section 4.2, we are planning to do a test of UV curing of the blocks. Two options are being considered. One would be to use the UV lamp that were used to cure the lead glass after the Hall A RCS experiment. Another would be to use a similar setup to the one used to cure the glass during Hall C Gep3 experiment. Frank Wesselmann has agreed to help setup a test space this summer. Work is also being done to setup the GEANT MC for studying the position and energy resolution with a 20cm Aluminum absorber in front of Big-Cal.