Hadron Calorimeter Cabling Work for Hall A

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This note describes cabling work done for the hadron calorimeter of Hall A's super bigbite spectromer.

The original plan was to locate, test, bundle, and relabel 1152 LEMO-BNC (Fig. 1) and 320 LEMO-LEMO (Fig. 2.) cables, both types two meters in length.

FIG. 1. An example of a LEMO-BNC cable.

FIG. 2. An example of a LEMO-LEMO cable.

After searching for the cables in the Experimental Staging Building and in the Physics Storage Building, a portion of the needed LEMO-BNC cables were found. These cables were measured for proper length, old labels removed, bundled into groups of sixteen, tested, and relabeled with labels that were researched, purchased, formatted, and printed.

Since no more pre-made cables were available, longer pre-made cables were cut into two, 2-meter long cables, old labels were removed, the cut end terminated with the correct connector (either BNC or LEMO, depending upon the connector already on it), bundled, tested, and new labels attached.

At this time, it has been determined that an additional 736 LEMO-BNC cables are needed. Table I summarizes cables required and completed.

Cable type	Required	Completed
LEMO-LEMO	320	128
LEMO-BNC	1888	1008

TABLE I. Progress on requested cables.

In addition to work on signal cables, 288 high voltage cables were routed and labeled on the HCAL. Labels were purchased, formatted, typed, and printed. As per the provided tables, the cables were routed and connected for the four HCAL quadrants. Figure 3 is a photo of a part of the HCAL, showing the red high voltage cables (though as shown in this photo, they have since been disconnected).

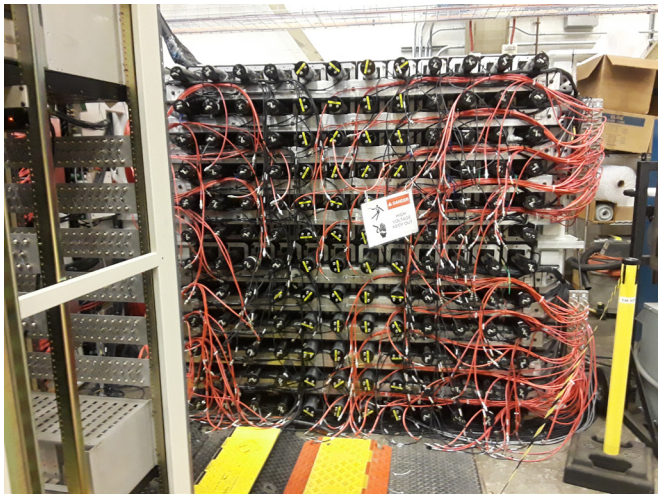

FIG. 3..Part of HCAL with red high voltage cables that were run and labeled.

In conclusion, about 50% of the total number of required cables have been located, fabricated, bundled, labeled, and tested. Additionally, 288 high voltage cables have been routed and labeled.