



low energy background and reduce the event rate from 200 kHz to 20kHz. The L3 farm was a part of the original Hall D project. It is expected that 2500 cores will be sufficient. The filtering algorithms must be elaborated, in order to optimize the size of the farm. Additionally, the networking capabilities of the elements between the VME crates and the farm must be verified. The L3 farm construction is included in the Physics Division Capital Equipment Plan.

Providing manpower for manning shifts, taking care of the equipment and online-processing the data may become a challenge.

Long running will require spares for various parts of equipment.

In summary, the proposal does not go beyond the original GlueX project in the beam or detector requirements. It requires building an L3 farm – a part of the original design. Implementation of the L3 farm is relatively straightforward, although requires an optimization of the size.