

## PDT Front-End Board configurations

According to the original request from the D0 muon group and recent D0 management decision PDT Front-End Boards (FEB) will be produced in two modifications:

- a) Complete board with 24 wire and 48 pad channels
- b) Partially stuffed board with 24 wire and four pad channels

These modifications will be applied to the FEBs in the following quantities:

1. Fully stuffed A-layer FEBs - 72 (needed) + 8 spares = 80 ea.
2. Partially stuffed B- and C-layer FEBs - 210 (needed) + 16 spares = 226 ea.

The total number of boards is 306 ea. The FEBs of "a" and "b" modification are interchangeable in the sense that they will work on all PDTs but will provide only corresponding to the modification amount of pad information. We believe that we may be able to avoid CB modifications related to the different pad data size. The final decision regarding this matter will be made after both prototypes of the FEB are tested.

These configurations are considered final and no attempts should be made in the future to instrument missing pad channels on the FEBs of modification "b". If there is a slight chance of such a possibility it has to be considered right now before the final production is started.