

## Thermistors June 11, 2000

Thermistors (Panasonic NTC thermistors  $33\text{K}\Omega$  , and Cornerstone NTC thermistors  $33\text{K}\Omega$  ) were irradiated in the O.S.U. reactor for 50 minutes (at 20 KW power) receiving a total dose of 50 LHC years worth of radiation. No degradation of the devices was observed. Shown below is the temperature measure in the 19 Panasonic (red) and 5 Cornerstone devices (green) as a function of radiation. It is seen that the thermistors slowly warm up during irradiation but basically return to room temperature afterwards. The thermistors were also retest for correct measurements at  $25^{\circ}$ ,  $50^{\circ}$ , and  $85^{\circ}\text{C}$ .

