

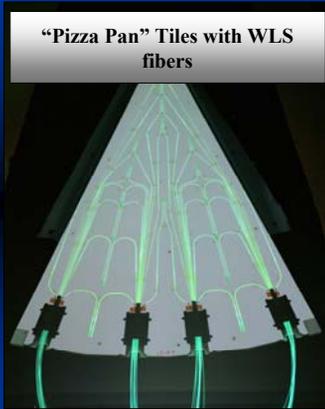
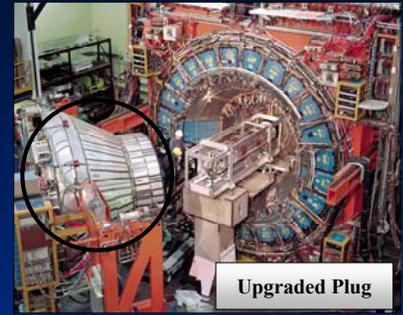


A Technical Division Contribution to CDF II

A New Plug for Run II Top Studies



The expected luminosity enhancement and short crossing time promised for the Tevatron Run II motivated CDF to upgrade the gas calorimeters in the $\eta > 1.0$ region with new scintillating calorimeters.



Scientists from the Technical Division and various CDF Universities developed calorimeter systems based on scintillating tiles read-out by WLS fibers. The fibers detect the light generated by ionizing particles and transmit it to Photodetectors located nearby to measure energy and position of electrons and jets.

The Upgraded Plug was engineered in the Technical Division, where two Electromagnetic mechanical modules of 10 tons each were assembled and tested before installation in CDF. Construction of the detecting elements took place in the TD as well.

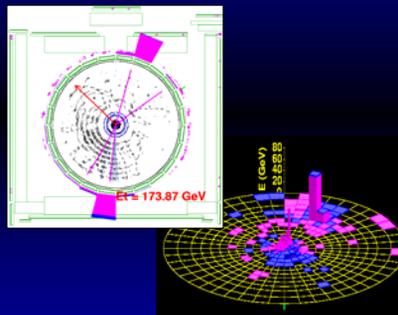


Installation of the Upgraded Plug



From left to right: S.Doerr, R.Olsen, C.Larette, J.Ellermeier, I.Iway

Run II Top Physics: Top candidate with Plug electron



Detectors using the CDFII Plug Technology

