Beam Loss Fiber

The Beam Loss Fiber is used to identify the location of beam losses. The sensor is similar to the bunch length system, but the Cherenkov sensor is an optical fiber extending the length of the undulator rather than a lucite block. Whereas the bunch length system uses the intensity of the signal from the sensor, the beam loss fiber uses arrival time to deduce the location along the fiber where there is beam loss.

The electronics and software are nearly the same as a bunch length system, as shown in the diagrams below.







