Observation of fission in Pb-Pb interactions at 158A GeV

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Figure 1: Experimental layout: the fragment detector and the standard NA50 detectors in the target and hadron absorber region are shown.
Figure 2: Structure of the fragment detector: (a) front view (the beam enters into the drawing); (b) top view. Note that for the sake of a clear presentation only a sample of the quartz fibers is shown and the fiber diameter is not in scale with respect to the quartz blade.
Figure 3: (a) Light output (ADC channels) and (b) $Z_{eff}$ spectra measured by the fragment detector. The variable $Z_{eff}$ is defined in the text.
Figure 4: Contour plot of the number of hits per multiplicity detector sector (y axis) versus $Z_{eff}$ (x axis).
Figure 5: Mean value of the zero-degree energy ($< E_{ZDC} >$) per bin of $Z_{eff}$, plotted as a function of $Z_{eff}$.
Figure 6: Probability of finding a $^{206}\text{Pb}$ (diamonds), $^{207}\text{Pb}$ (squares) and $^{208}\text{Pb}$ (circles) as a function of the depth $x$ in the target. The sum of these probabilities ($^{\text{tot}}P(x)$, see text) is also shown (triangles).