LONGITUDINAL PROFILES USING RECONSTRUCTED DATA

Analyzing the data of the angle scan

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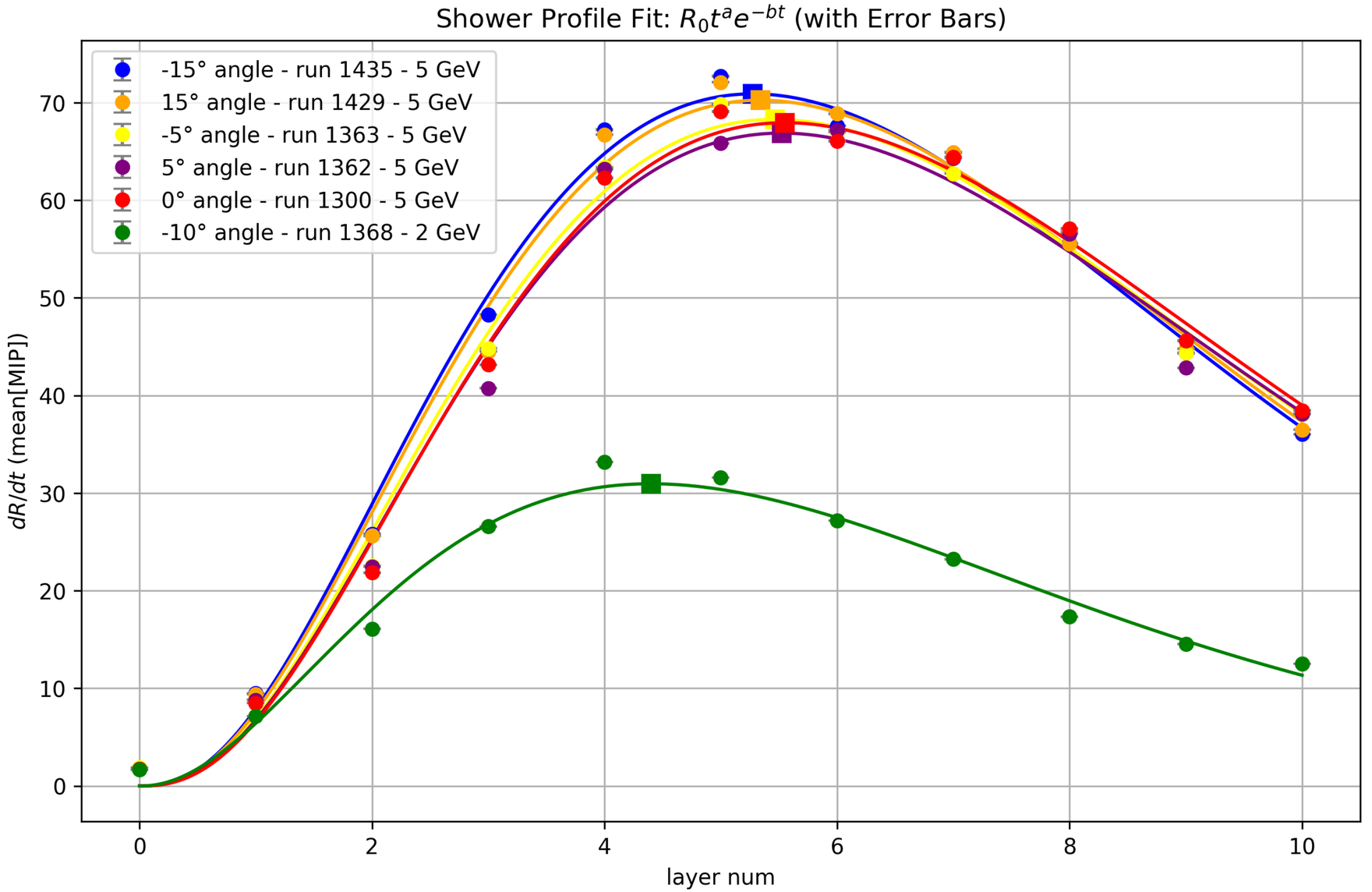
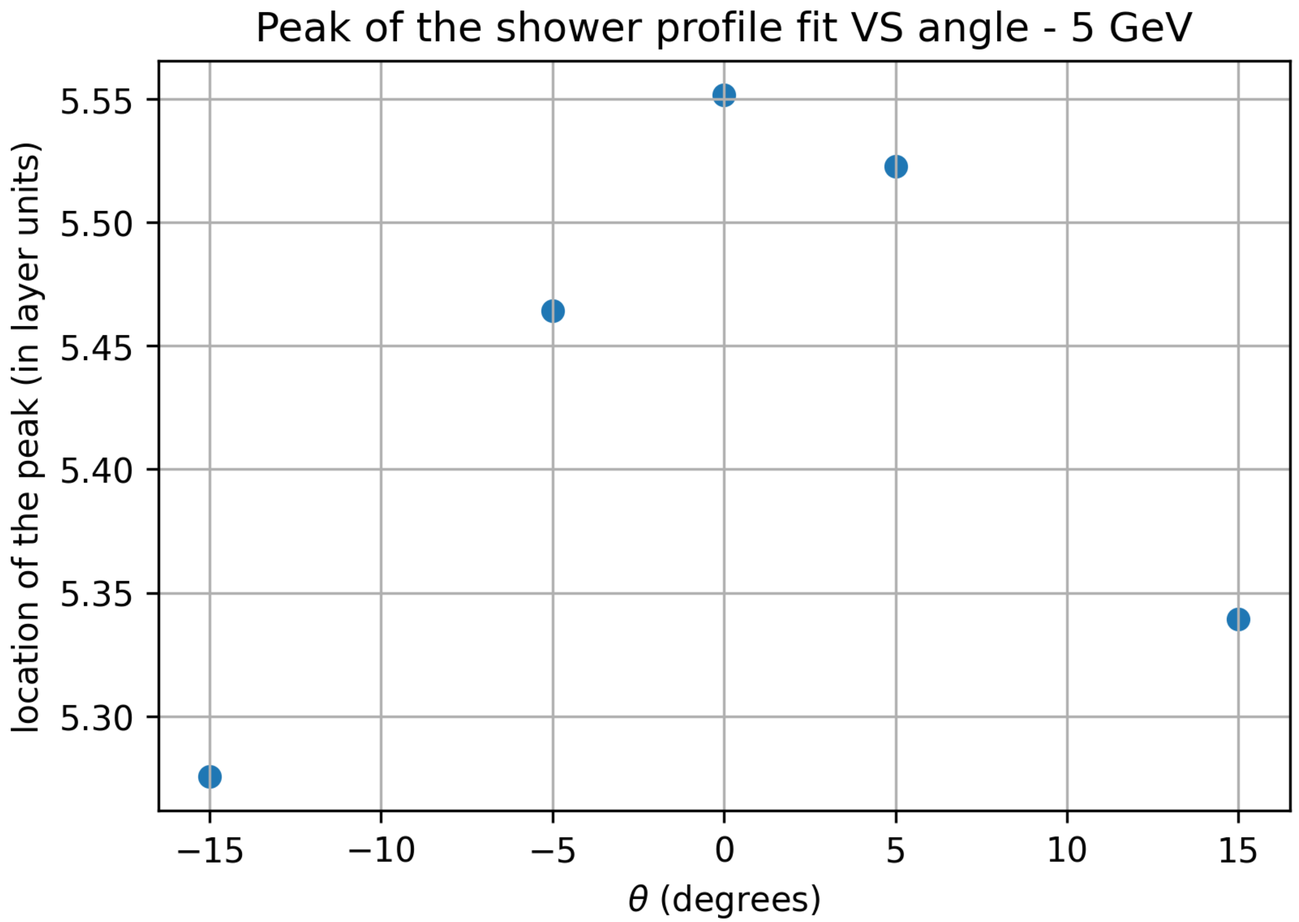


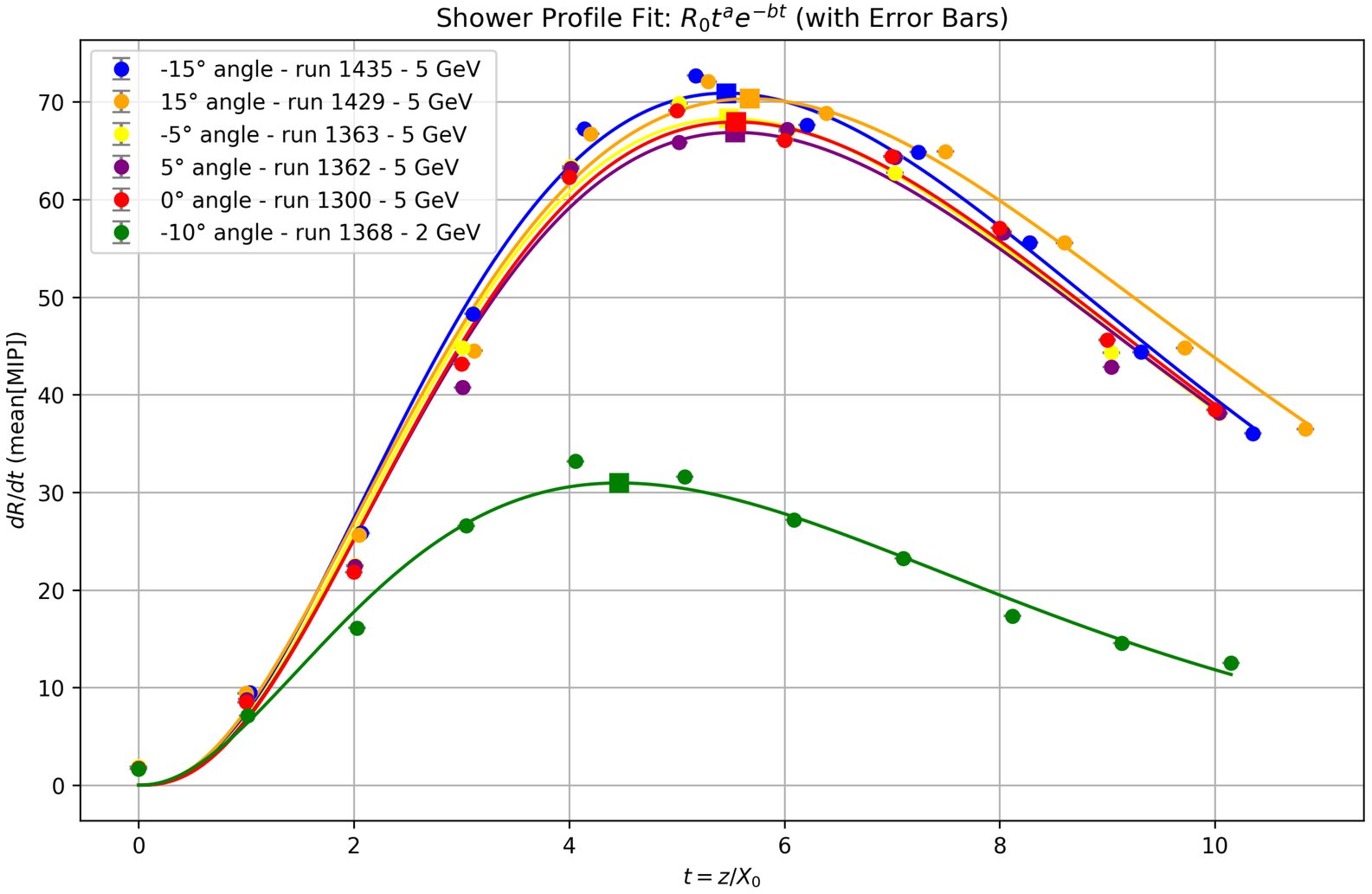
The squares represent the peaks of the fits.

As expected, they shift backwards as the angle increases.

nch_layer0 < 14 and chi^2 < 23 , one track, amp > 9



The asymmetry might be explained by the positive angles passing through the gap between the left and right sensors



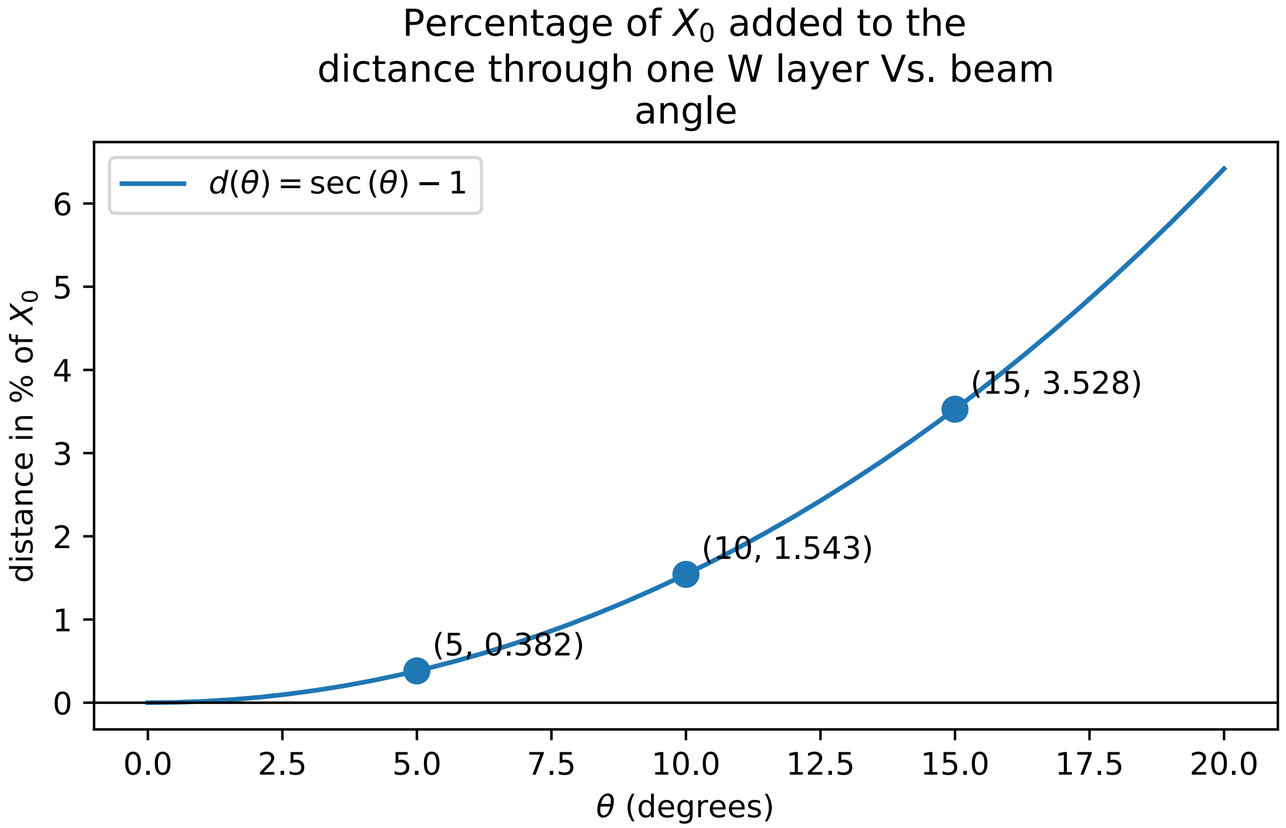
This plot presents the shower profiles with the x-axis in units of radiation length.

This is done using the results presented in the drafts

As expected, here the peaks of 5 GeV have nearly the same location.

THE END

DRAFTS



Shan noticed that I previously had a mistake in this graph - this is the ***fixed version.***

- When the beam is at an angle the path of the particle in the matter increases according to the following formula:

$$d = \frac{X_0}{\cos(\theta)}$$