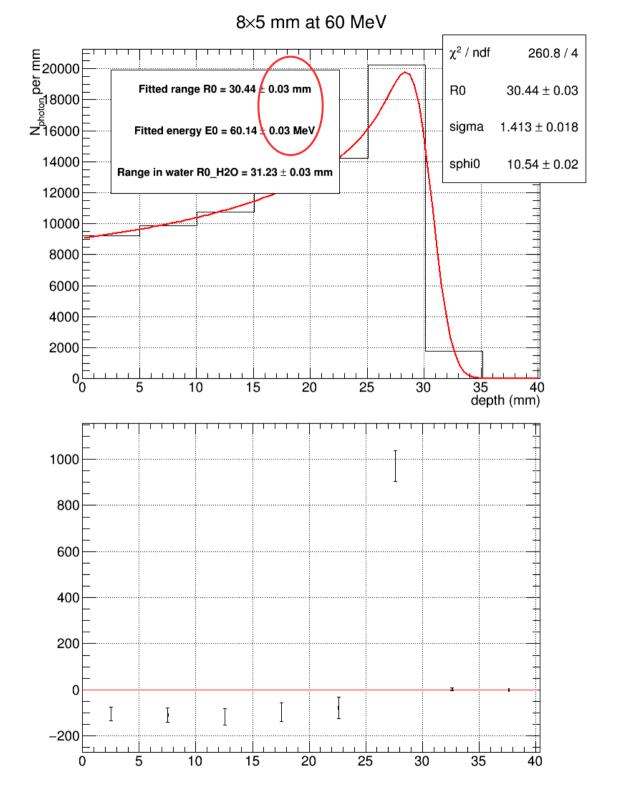
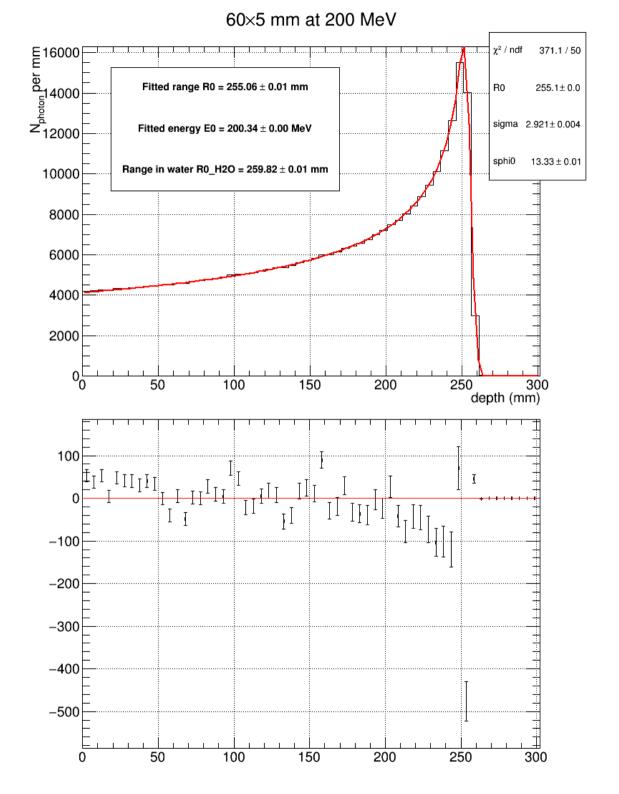
A fit curve for the photon yield

General enhancements and ideas on error bars

State of fit procedure

- Improved fit function (i.e. use less approximations)
- Improved y errors: Take into account fluctuation in energy deposition
- Points scatter nicely around fitted curve
- But scattering becomes huge around Bragg peak





Problem: Error bars

- Problem: Error on fit parameter are unrealistic
- I think it's the y error bars that affect the fit parameter error estimation
- That problem is related to what Simon said about how bin errors are/should be considered by a histogram fit
- Introducing x errors makes fit time consuming/failing
- This is because x errors are translated into y errors via the slope of the fit function in that region
- Idea: Introduce additional artificial y error, dependent on difference of bin content to neighbouring bins
- Add tenth of difference to neighbouring bins to y error as a test

