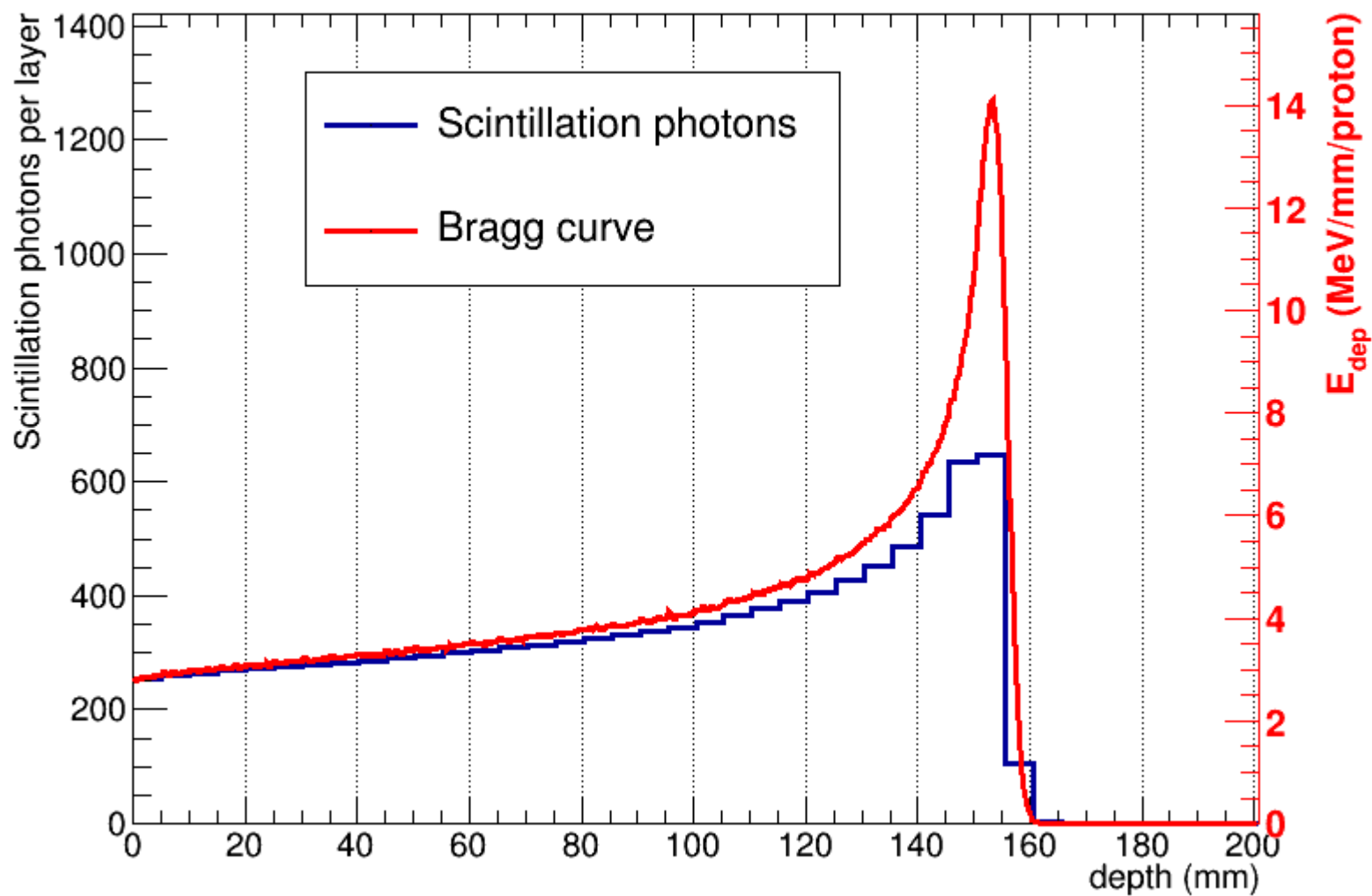


Segmented Calorimeter Update

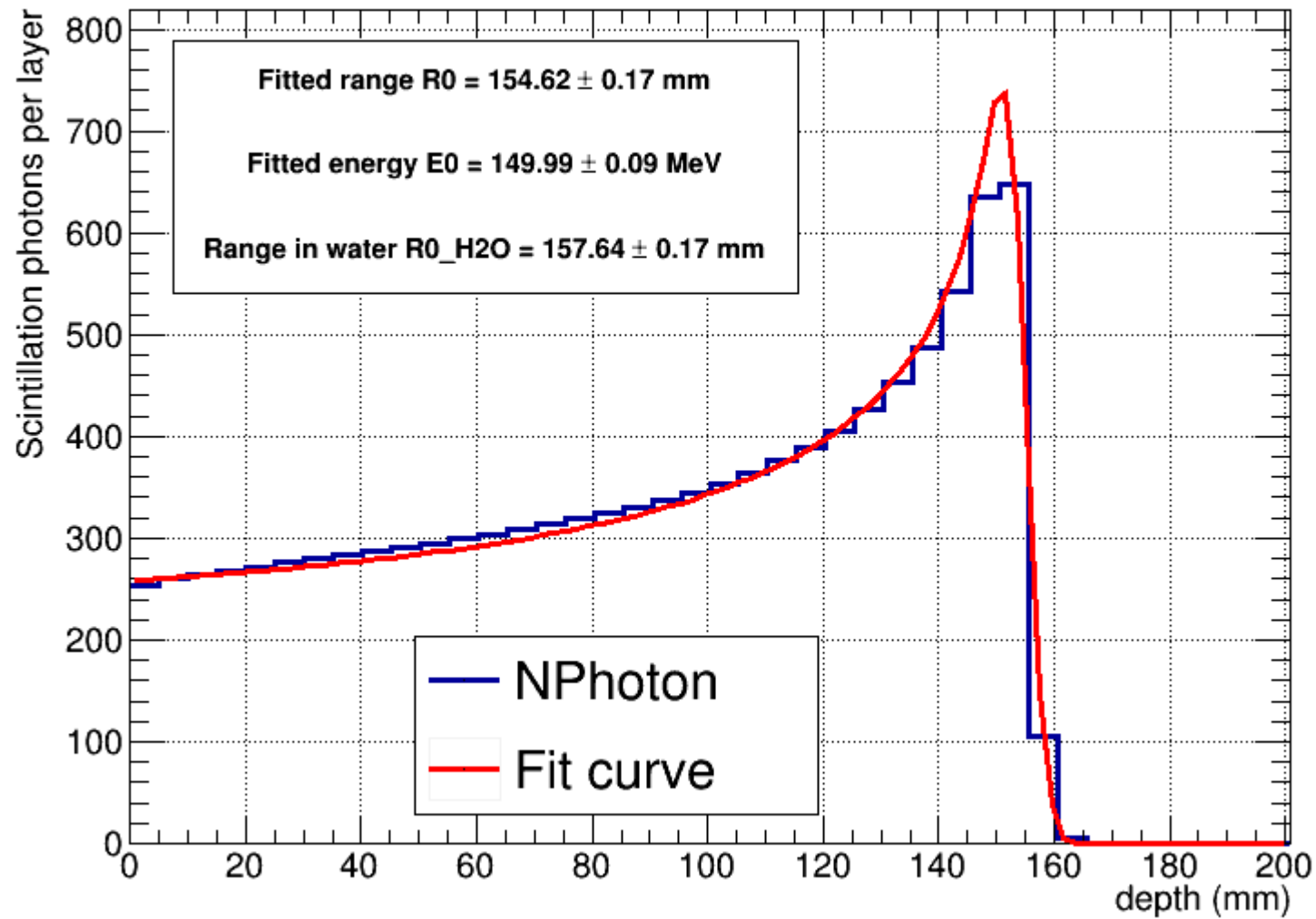
What I learned from build-up

- Thanks to the build-up research, I realized that the simulation of the segmented calorimeter worked with a wrong physicslist
- It didn't take into account nuclear reactions!
- It does now
- Fit still works fine but looks less nice because of lack of description of the nuclear build-up in the fit model

150 MeV



150 MeV



Conclusion?

- I could improve the Bragg & Photon fit function:
expand it with a description of the secondary protons
- There is a paper about that (for Bragg), but they only did it empirically by adding some (arbitrary?) polynom
- With the knowledge of the dose distribution of secondary protons, I think I could do better