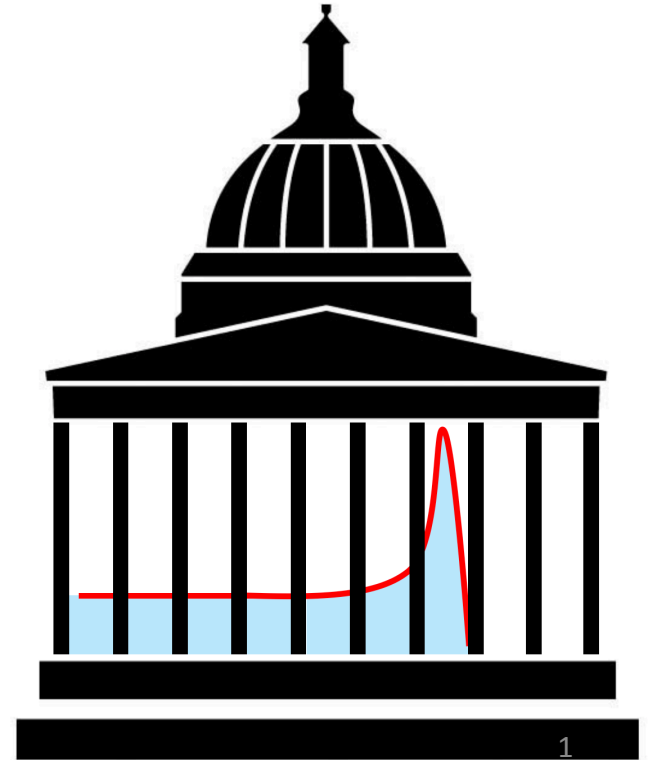


PBT group meeting

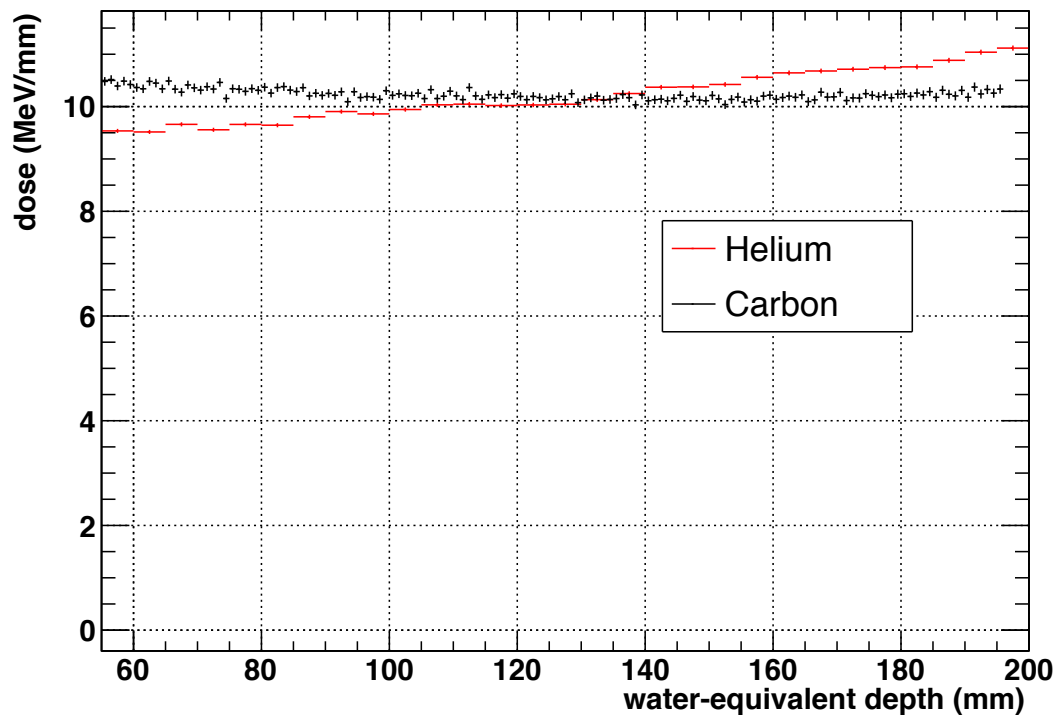
9/01/2019

Laurent Kelleter



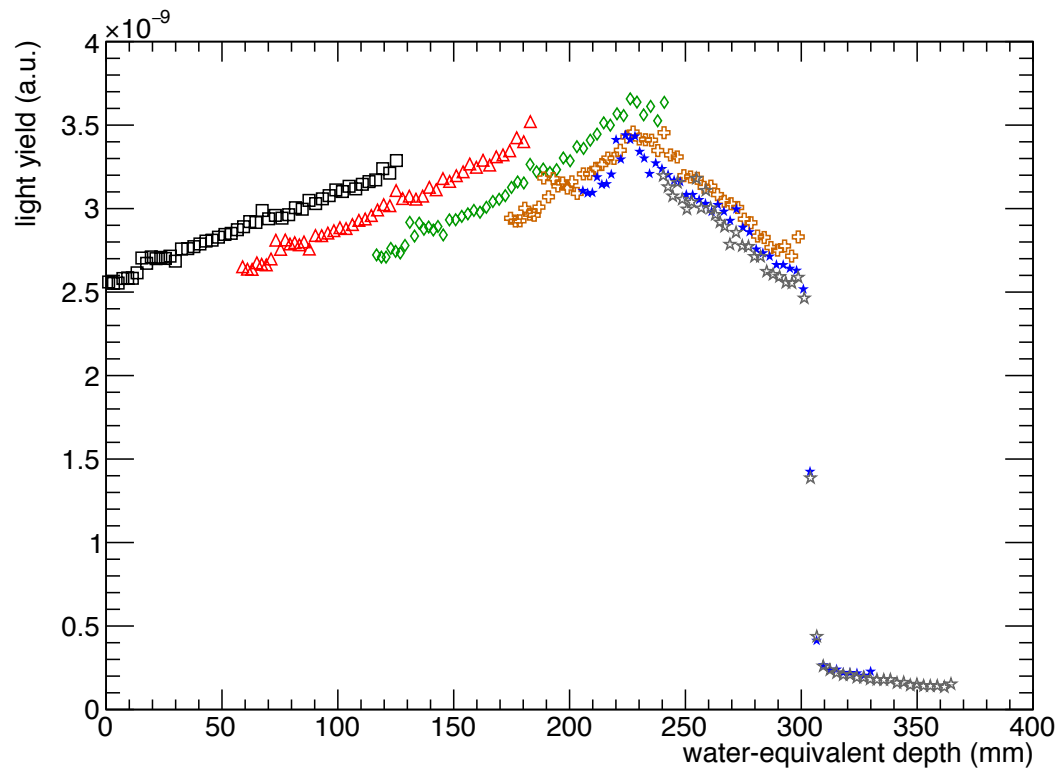
- Cool idea: Mix Helium and Carbon Beams for treatment
- Advantage: Live radiography of patient
- Test beam in Heidelberg: artificial superposition of He and C beams
- First analysis presented here

Geant4 simulation of calibration

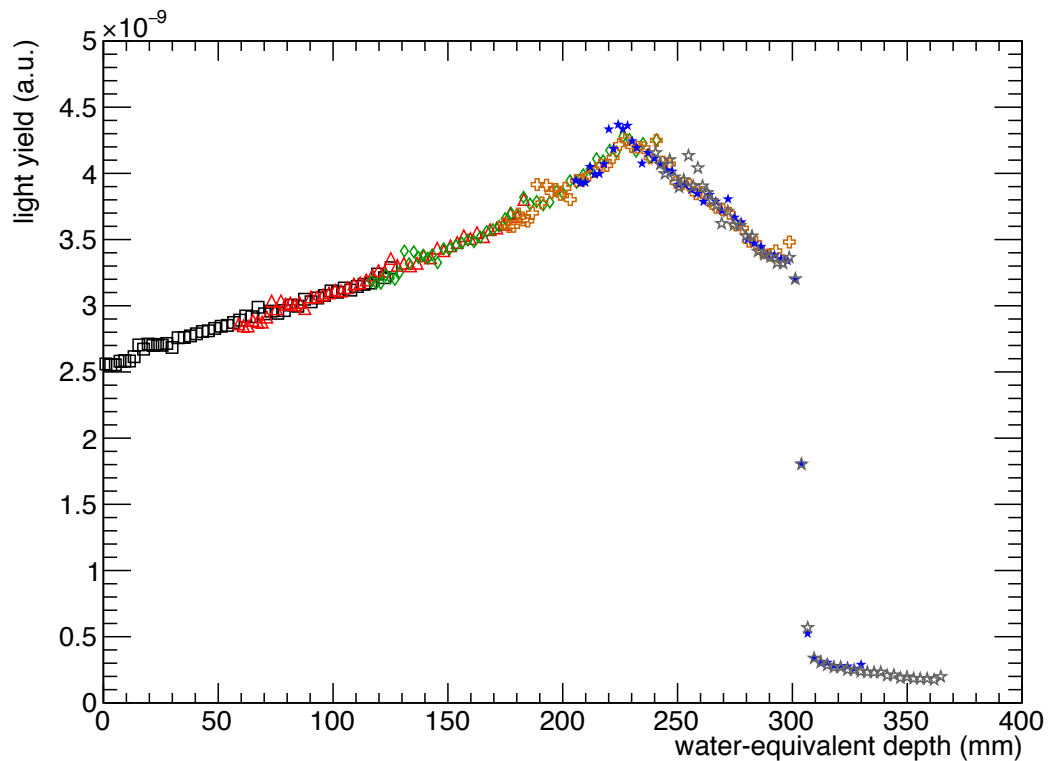


=> use carbon
(also for He data)

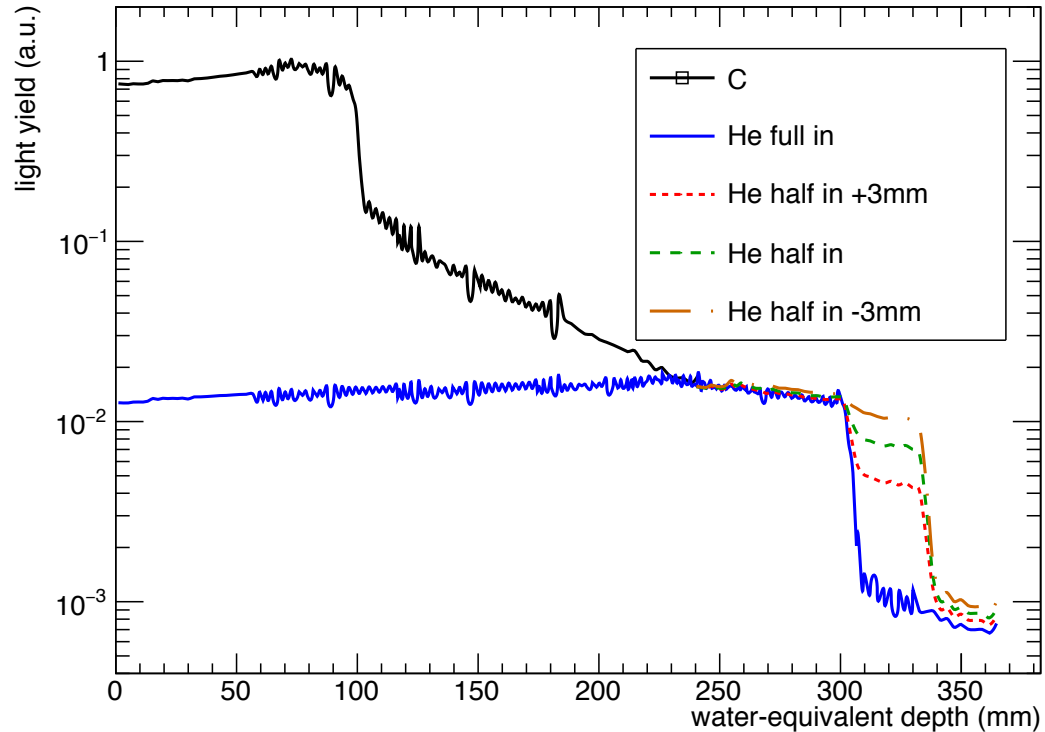
Normalisation!



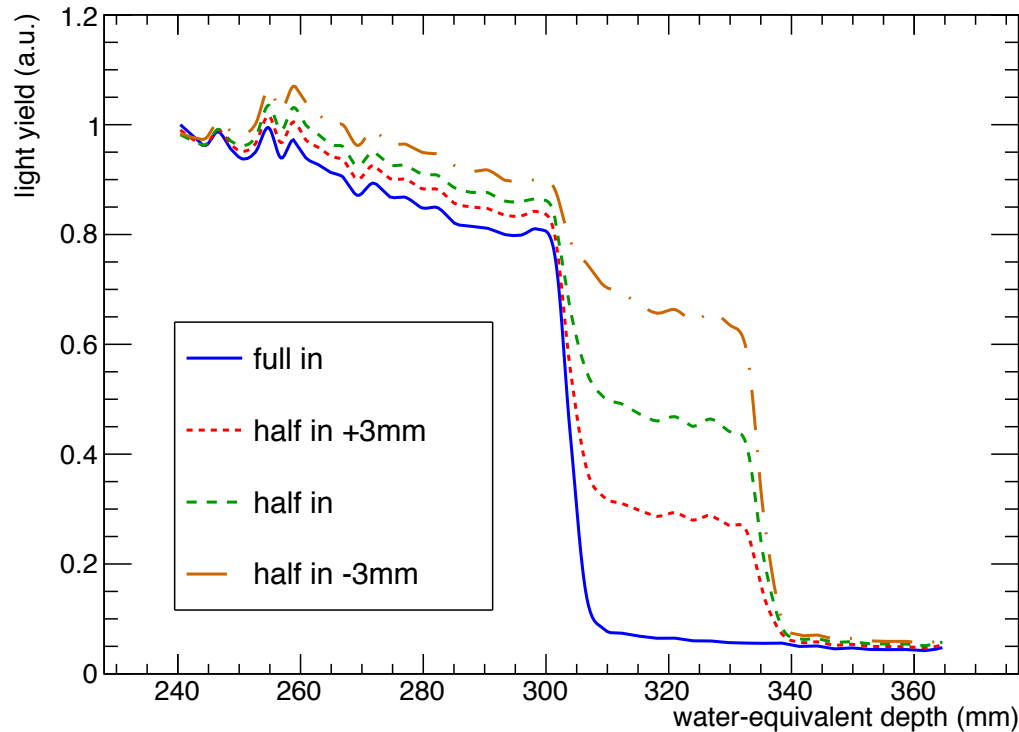
Scaled! (cheated)



Moving tumour (not cheated)



Zoom (not cheated)



Next beam test



- What do we want to do?
- Definitely should measure the whole carbon curve!
- Can we do a better normalisation?
- Which role plays radiation damage?
- What about the beam spot size?
- How to make setup mechanically more robust (move and rotate it without falling apart)