Exercise 15:
Voxels and Medical Applications

FLUKA Beginners course

Exercise 15: Voxels and Med App

Aim of the exercise:

Radiotherapy application

Requirements

- ❑ Import the DICOM files (*CT, RTPLAN, RTSTRUCT, RTDOSE*)
- ❑ Create a VOXEL geometry with and without ROI structures
- ❑ Export .bnn file from RTDOSE
- ❑ Export information from RTPLAN
- ❑ Score DOSE using provided USRBIN card
- ❑ Run a full_treatment simulation
- ❑ Plot DVH for TPS/FLUKA output for two ROIs – 'PTV54' and 'Brain_Stem'

Run 5 cycles x 10000 primaries each