Particle therapy masterclass University of Tetova

THERAPY PLANING OF C-PHANTOM & LIVER

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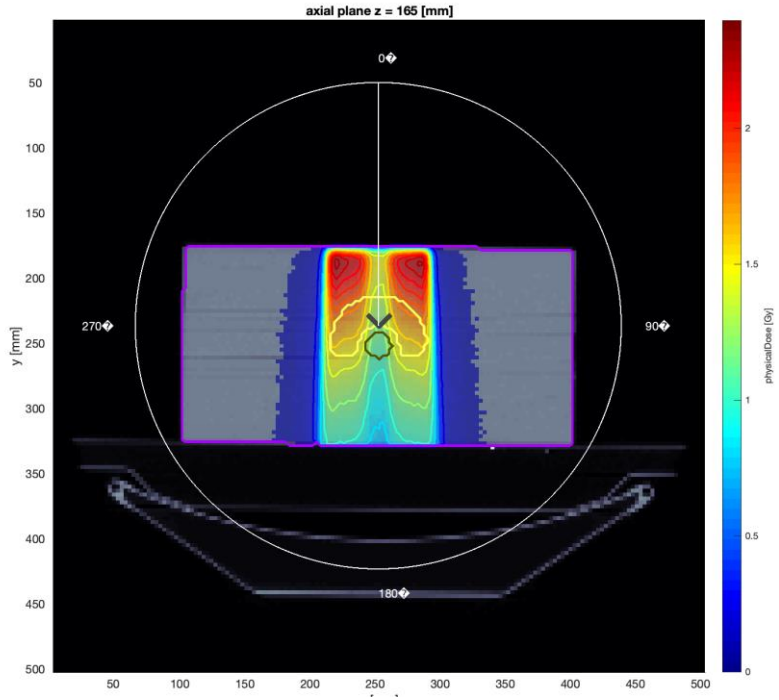
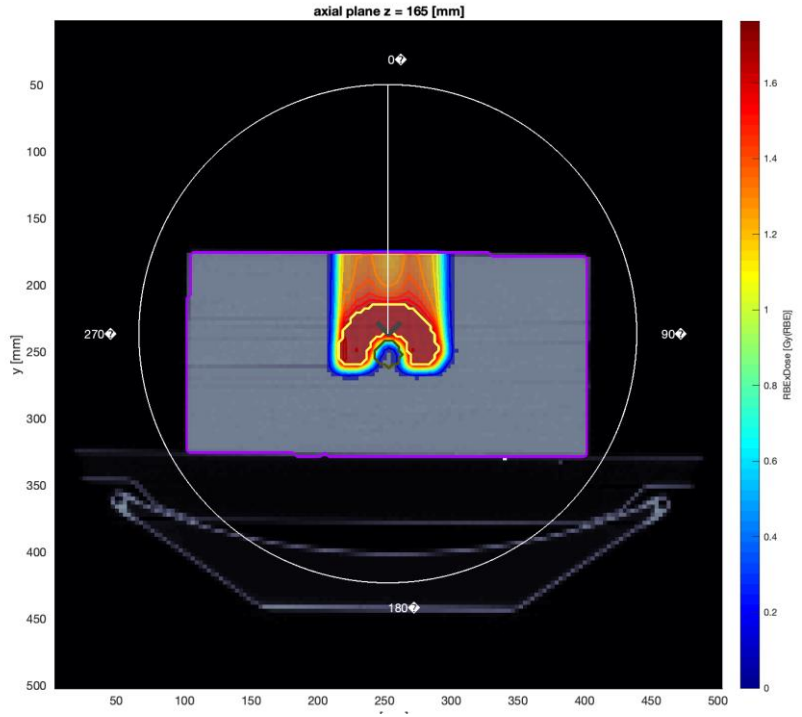
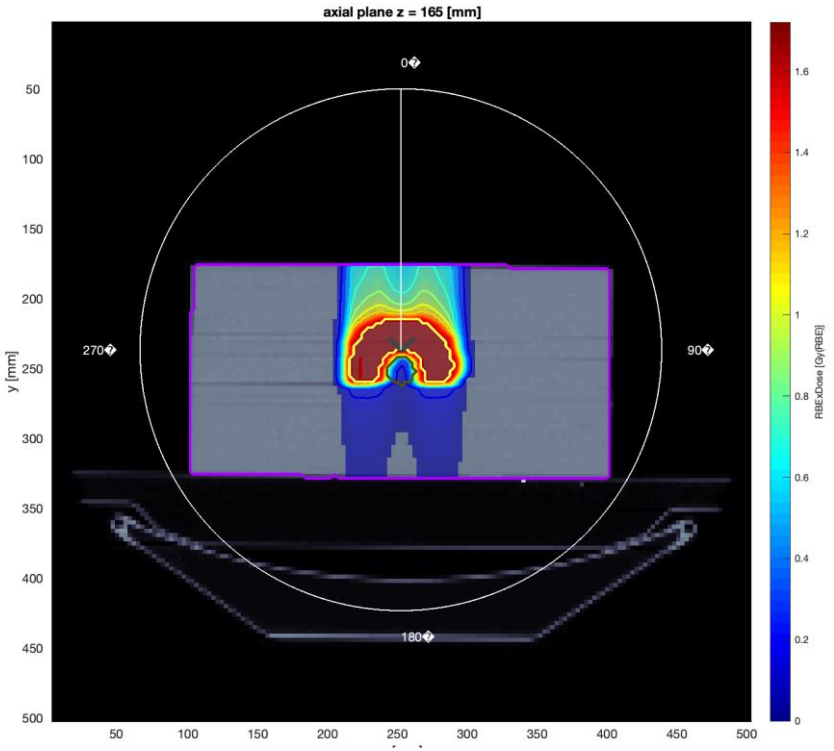
C PHANTOM – 1 ANGLE



Photons

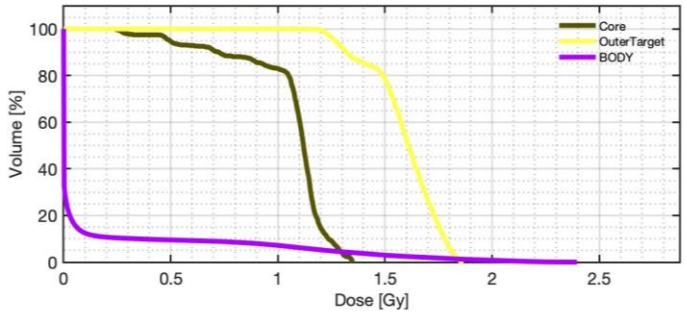


Protons



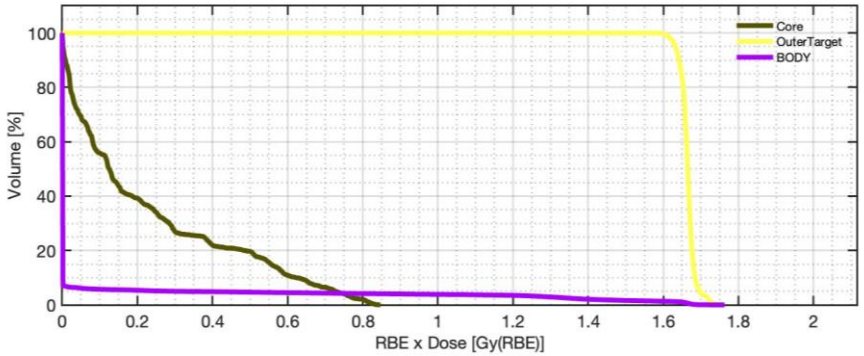
Carbon ions

C PHANTOM – 1 ANGLE



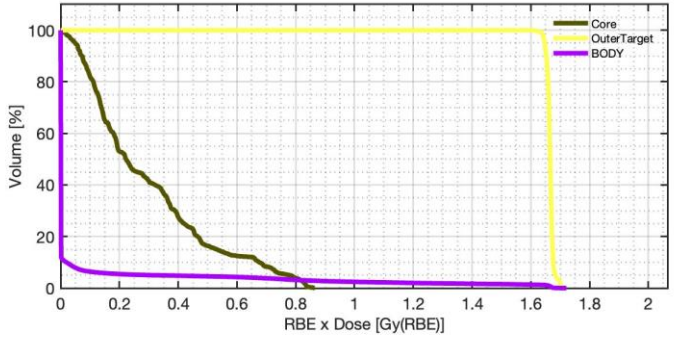
	max	min	mean	std
Core	1.3525	0.2364	1.0615	0.2183
OuterTarget	1.8672	1.0975	1.5905	0.1581
BODY	2.3969	0	0.1373	0.4068

Photons



	max	min	mean	std
Core	0.8481	0	0.2249	0.2382
OuterTarget	1.7635	1.5573	1.6650	0.0202
BODY	1.7635	0	0.0652	0.2890

Protons



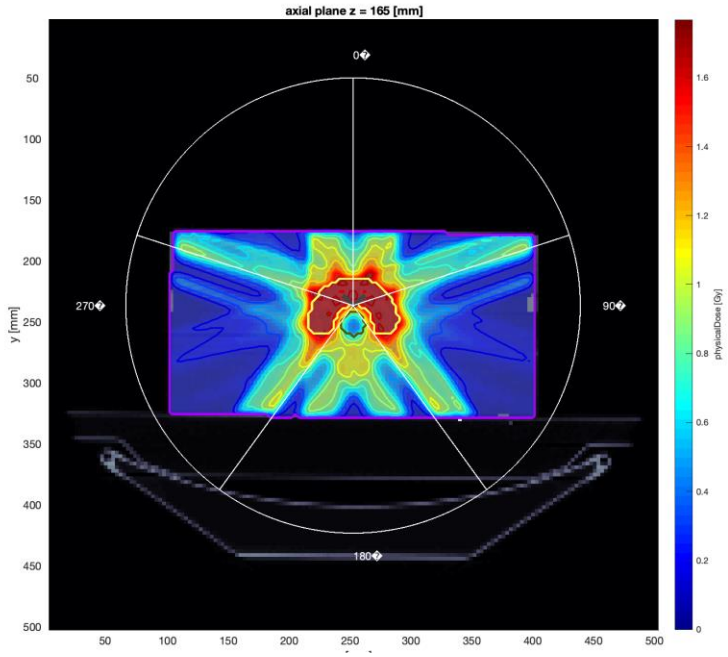
	max	min	mean	std
Core	0.8660	0.0056	0.2979	0.2200
OuterTarget	1.7217	1.5670	1.6658	0.0117
BODY	1.7217	0	0.0584	0.2558

Carbon ions

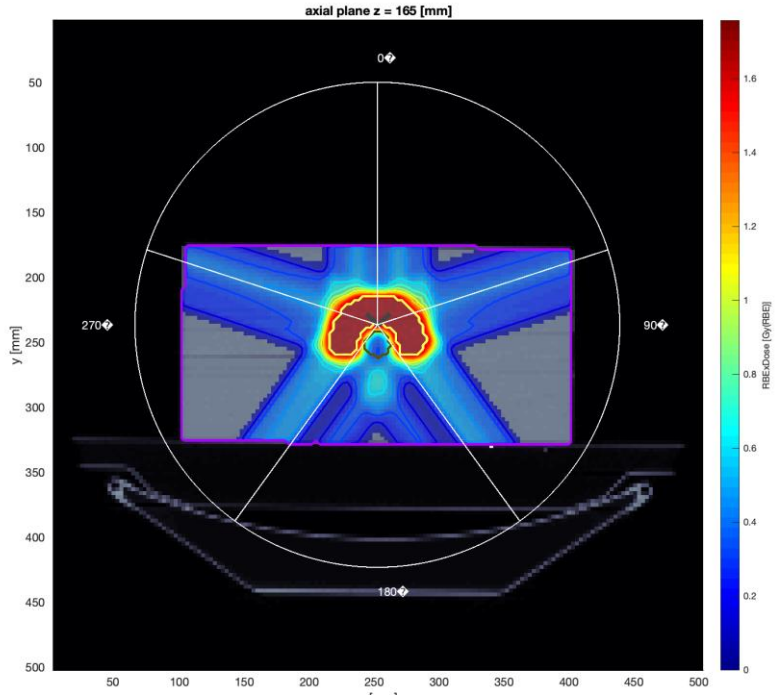
C PHANTOM – 1 ANGLE - DVH

	photons	protons	carbon
Core	1.0615	0.2232	0.2975
Outer Target	1.5905	1.6651	1.6658
Body	0.1372	0.0653	0.0581

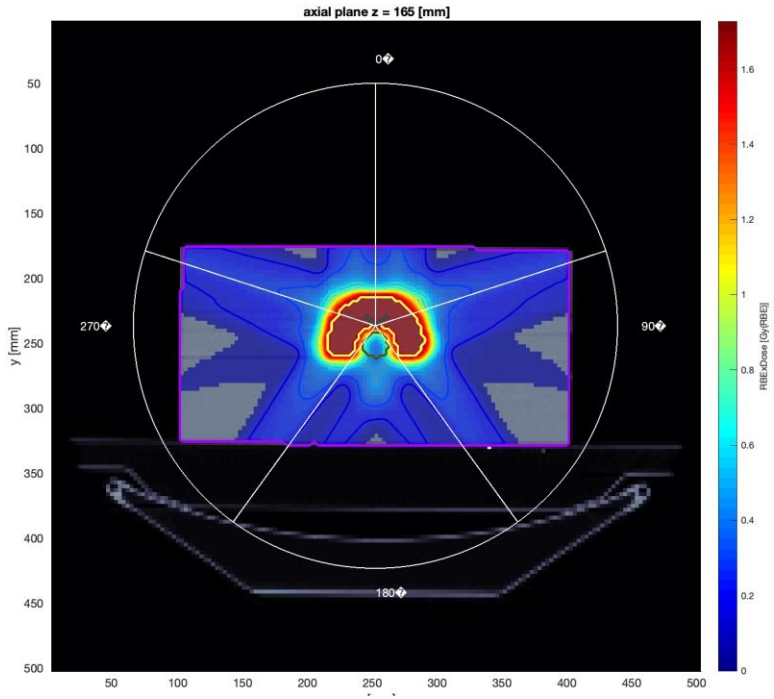
C PHANTOM – 5 ANGLE



Photons



Protons

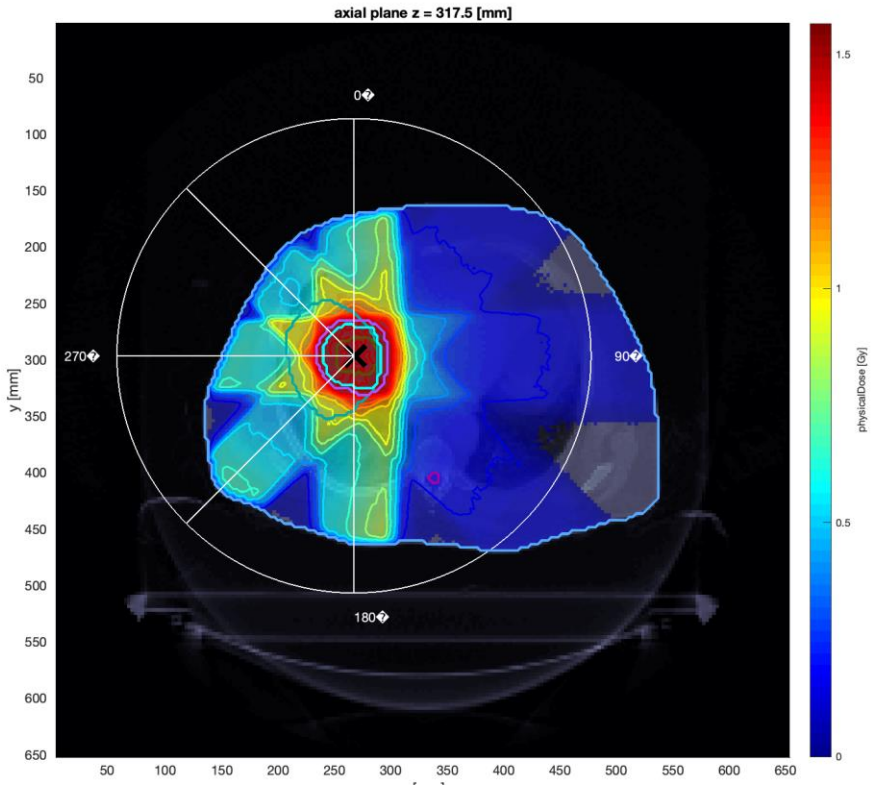


Carbon ions

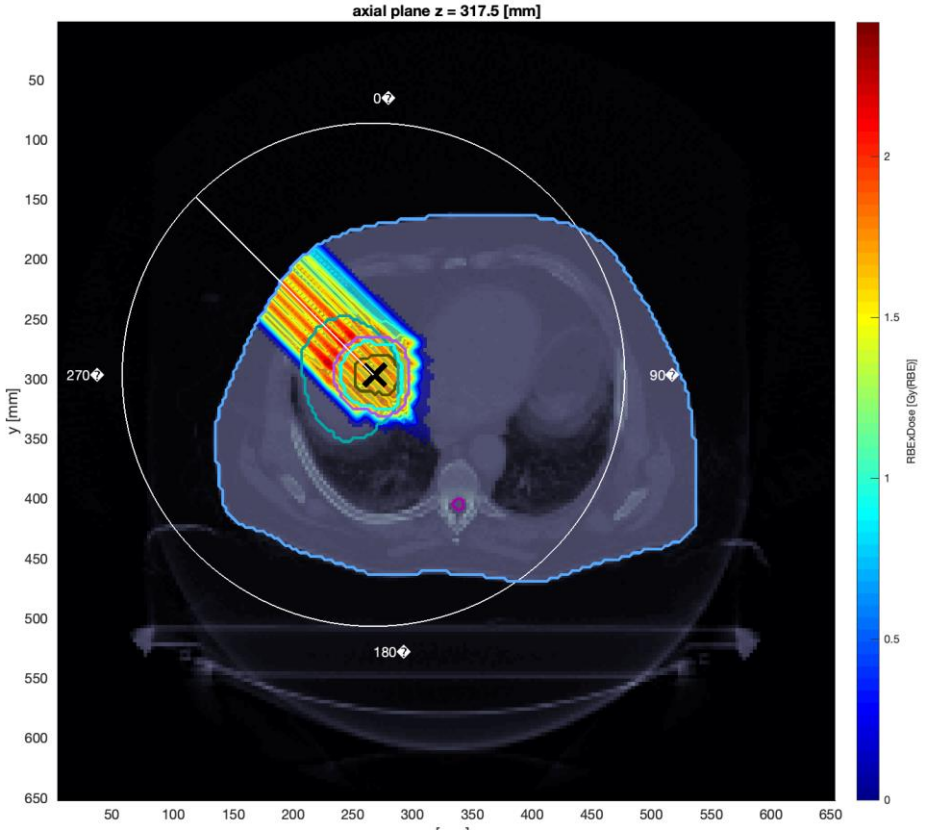
C PHANTOM – 5 ANGLE - DVH

	photons	protons	carbon
Core	0.5883	0.4429	0.5220
Outer Target	1.6642	1.6656	1.6662
Body	0.1693	0.0995	0.0880

LIVER

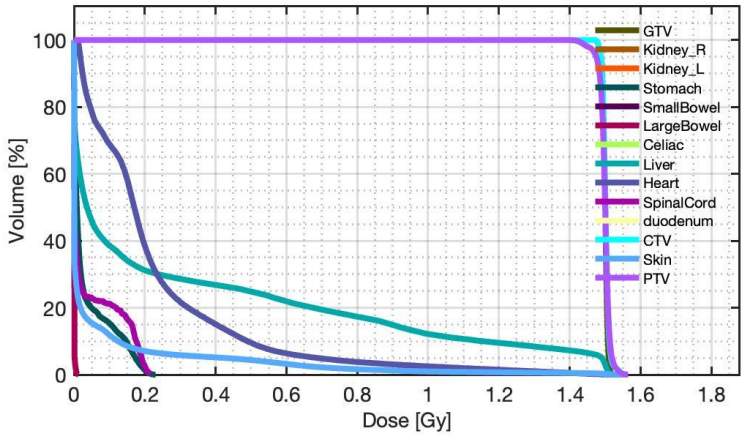


Photons – 5 angles



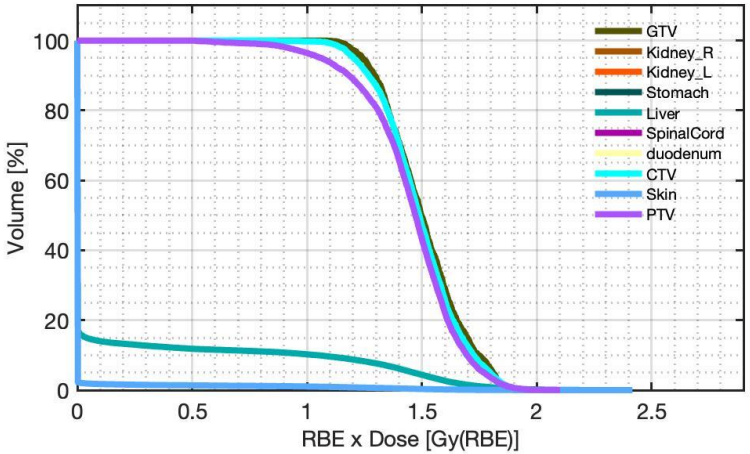
Proton 1 angle = 315 degree

LIVER



	max	min	mean	std
GTV	1.5222	1.4714	1.5000	0.0068
Kidney_R	0	0	0	0
Kidney_L	0	0	0	0
Stomach	0.2318	0	0.0342	0.0566
SmallBowel	0	0	0	0
LargeBowel	0.0138	0	2.5448e-04	0.0011
Celiac	0	0	0	0
Liver	1.5405	0	0.3039	0.4711
Heart	1.5180	0.0067	0.2268	0.2398
SpinalCord	0.2161	0	0.0398	0.0699
duodenum	0	0	0	0
CTV	1.5654	1.4714	1.5020	0.0099
Skin	1.5659	0	0.0567	0.1867

Photons – 5 angles



	max	min	mean	std
GTV	1.9526	1.0908	1.5064	0.1687
Kidney_R	0	0	0	0
Kidney_L	0	0	0	0
Stomach	0	0	0	0
Liver	2.4171	0	0.1691	0.4560
SpinalCord	0	0	0	0
duodenum	0	0	0	0
CTV	1.9872	0.6932	1.4924	0.1736
Skin	2.4171	0	0.0181	0.1503
PTV	2.1025	0.5024	1.4512	0.2134

Proton 1 angle = 315 degree

Thank you for your attention