



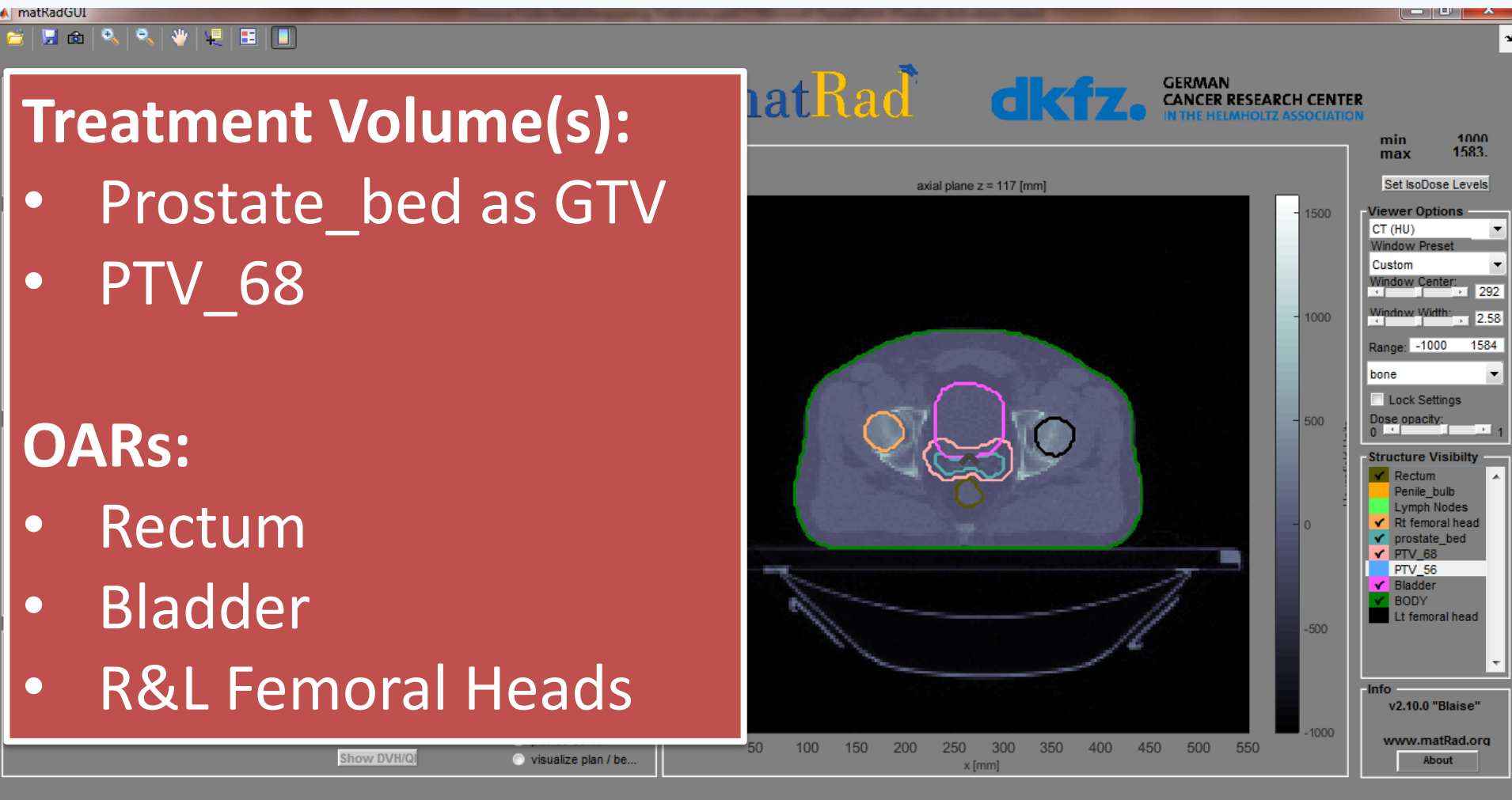
PARTICLE THERAPY MASTERCLASS

University of Tuzla

Bosnia and Herzegovina

Tuzla, mart 2021.godine

TREATMENT PLAN REPORT — PROSTATE CASE



Treatment Volume(s):

- Prostate_bed as GTV
- PTV_68

OARs:

- Rectum
- Bladder
- R&L Femoral Heads

min 1000 max 1583.
Set IsoDose Levels

Viewer Options

CT (HU)
Window Preset: Custom
Window Center: 292
Window Width: 2.58
Range: -1000 1584
bone
 Lock Settings
Dose opacity: 0

Structure Visibility

- Rectum
- Penile_bulb
- Lymph Nodes
- Rt femoral head
- prostate_bed
- PTV_68
- PTV_56
- Bladder
- BODY
- Lt femoral head

Info
v2.10.0 "Blaise"
www.matRad.org
About

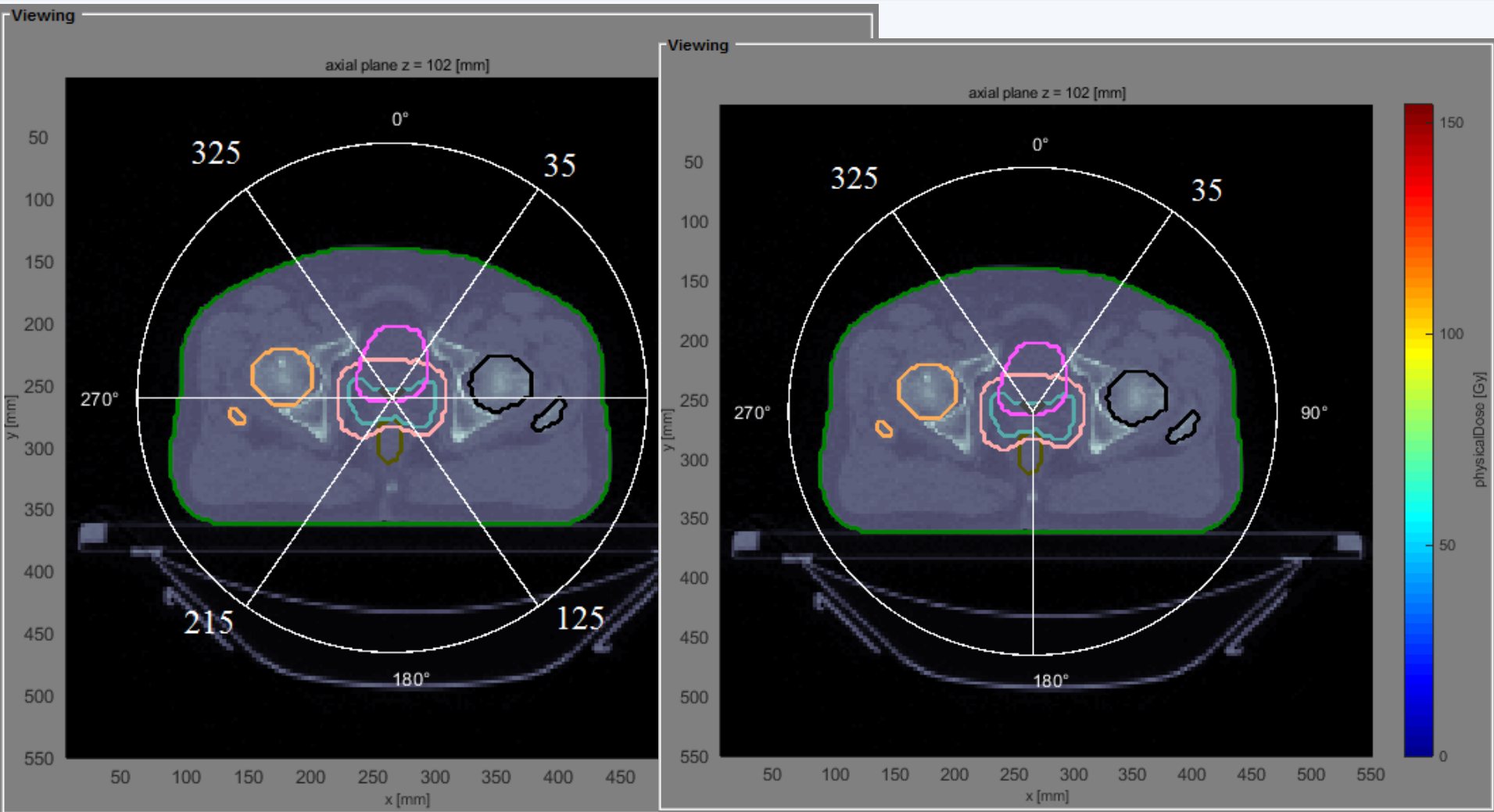
axial plane z = 117 [mm]

1500
1000
500
0
-500
-1000

50 100 150 200 250 300 350 400 450 500 550
x [mm]

Show DVH/Q visualize plan / be...

TREATMENT PLAN REPORT – Beam geometry

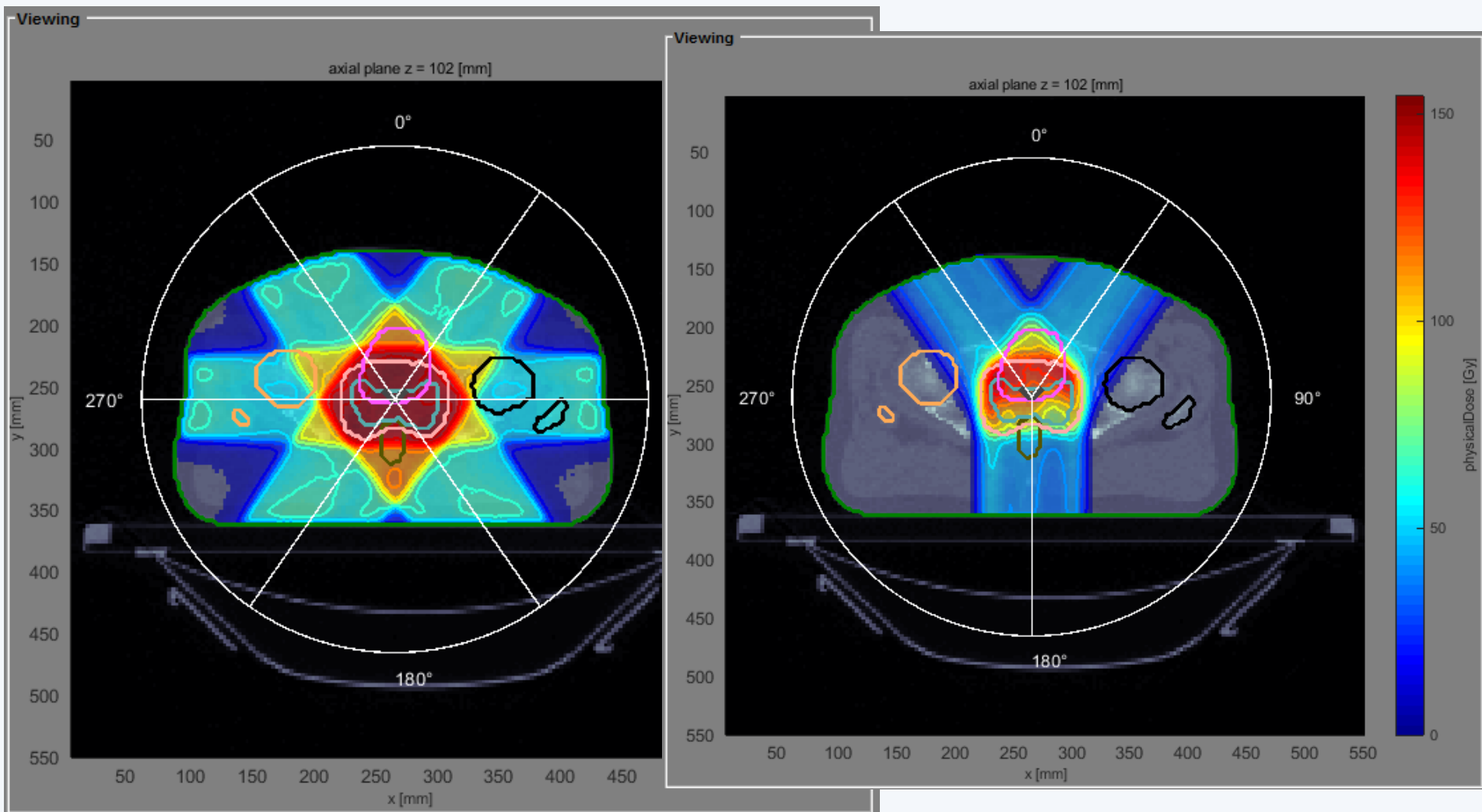


TREATMENT PLAN REPORT — Objectives & Constrains

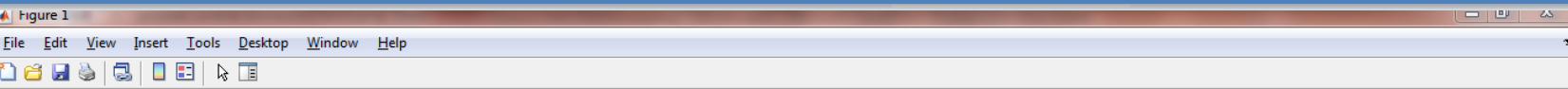
Objectives & constraints

+/-	VOI name	VOI type	OP	Function	ρ	Parameters					
-	Rectum	OAR	2	DVH constraint	---	d^{ref}	50	V^{min}	0	V^{max}	50
-	Rt femoral l	OAR	3	DVH constraint	---	d^{ref}	50	V^{min}	0	V^{max}	5
-	prostate_b	TA...	1	DVH constraint	---	d^{ref}	68	V^{min}	98	V^{max}	100
-	PTV_68	TA...	1	DVH constraint	---	d^{ref}	68	V^{min}	98	V^{max}	100
-	Bladder	OAR	2	DVH constraint	---	d^{ref}	65	V^{min}	0	V^{max}	50
-	Lt femoral f	OAR	3	DVH constraint	---	d^{ref}	50	V^{min}	0	V^{max}	5
+	Rect...										

TREATMENT PLAN REPORT — Isodose distributions



TREATMENT PLAN REPORT — Data from DVHs



Structure	Photons	Protons
Prostate-bed (GTV)	67.2	65.4
PTV_68	66.4	64.8
Rectum	50.8	24.7
Bladder	25.8	13
R. Femoral head	31.7	4.9
L. Femoral head	30.1	1.8

Volume [%]

Bladder	38.2690	46.7652	148.1614	0	140.4926	131.7017	12.9593	0	0	1	0.4032	0.2944	0.1940	0.0761	0
BODY	4.1622	15.2100	154.2523	0	52.3586	32.4162	0	0	0	1	0.0533	0.0163	0.0080	0.0027	2.9274e-06
Lt femoral head	0.4881	2.4181	23.4942	0	10.2347	1.7567	0	0	0	1	0	0	0	0	0