

Egypt series under the supervision of
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Benha University

Ph 1 liver

Workflow

Refresh Load *.mat data Calc. influence Mx Optimize Save to GUI

Recalc

Status: plan is optimized

Plan

bixel width in [mm]

Gantry Angle in °

Couch Angle in °

Radiation Mode **photons**

Machine Generic

IsoCenter in [mm] Auto.

Fractions

Type of optimization none

Run Sequencing

Stratification Levels

Objectives & constraints

±/.	VOI name	VOI type	OP	Function	p	Parameters
-	Skin	DAR	2	Squared Overdosing	300	d_{max} 25
-	PTV	TARGET	1	Squared Deviation	1000	d_{ref} 45
+	GTV					



Visualization

Slice Selection Type of plot **intensity** GoTo **lateral**

Beam Selection Plane Selection **axial**

Offset Display option **physicalDose**

plot CT
 plot contour
 plot isolines
 plot dose
 plot isolines labels
 plot iso center
 visualize plan / beams

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min value: 0
max value: 3.3048

Viewer Options

Result (i.e. dose)

Window Preset Custom

Window Center:

Window Width:

Range:

jet

Lock Settings

Dose opacity:

Structure Visibility

- Cellac
- SIVA_SMV
- Liver
- Heart
- SpinalCord
- DoseFalloff
- Duodenum
- CTV
- Skin
- PTV
- cord+5mm
- clip1
- clip2
- clip3
- clips
- entrance
- Liver-CTV
- combinedKidney
- CT Reference
- ISOCENTER

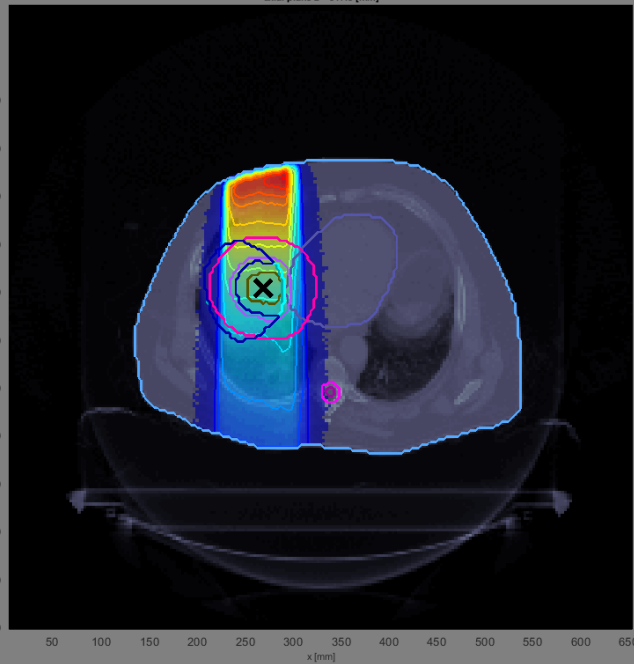
Info

v3.0.0 - edu

github.com/e0404/matRad

Viewing

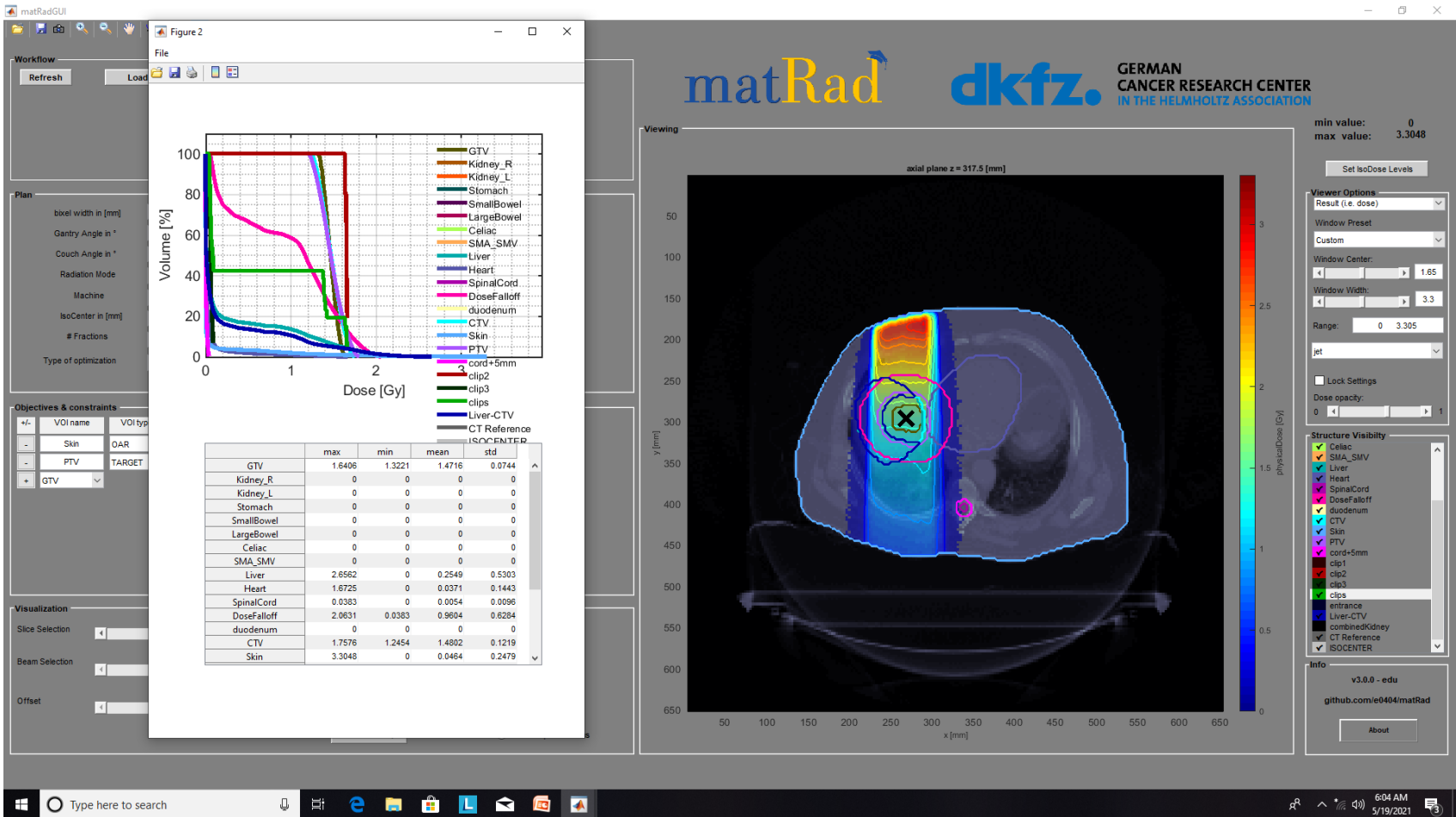
axial plane z = 317.5 [mm]



physicalDose [Gy]

x [mm] y [mm]

Ph 1 liver



Pr 1 liver

matRadGUI

Workflow: Refresh Load *.mat data Calc. influence Mx Optimize Save to GUI Recalc

Status: plan is optimized

Plan:

bixel width in [mm]: 5
 Gantry Angle in °: 330
 Couch Angle in °: 0
 Radiation Mode: protons
 Machine: Generic
 IsoCenter in [mm]: 285.8 296.7 316.4
 # Fractions: 30
 Type of optimization: const_RBExD

Objectives & constraints:

±/.	VOI name	VOI type	OP	Function	p	Parameters
-	Skin	DAR	2	Squared Overdosing	300	d^{max} : 25
-	PTV	TARGET	1	Squared Deviation	1000	d^{ref} : 45
+	GTV					

Visualization:

Slice Selection: [] Type of plot: intensity GoTo: lateral
 Beam Selection: [] Plane Selection: axial Open 3D-View
 Offset: [] Display option: physicalDose
 Show DVH/QI

Viewing:

axial plane z = 317.5 [mm]

min value: 0
max value: 1.7213

Viewer Options:
 Result (i.e. dose): Custom
 Window Center: 0.861
 Window Width: 1.72
 Range: 0 1.721
 jet
 Lock Settings:
 Dose opacity: 0 1

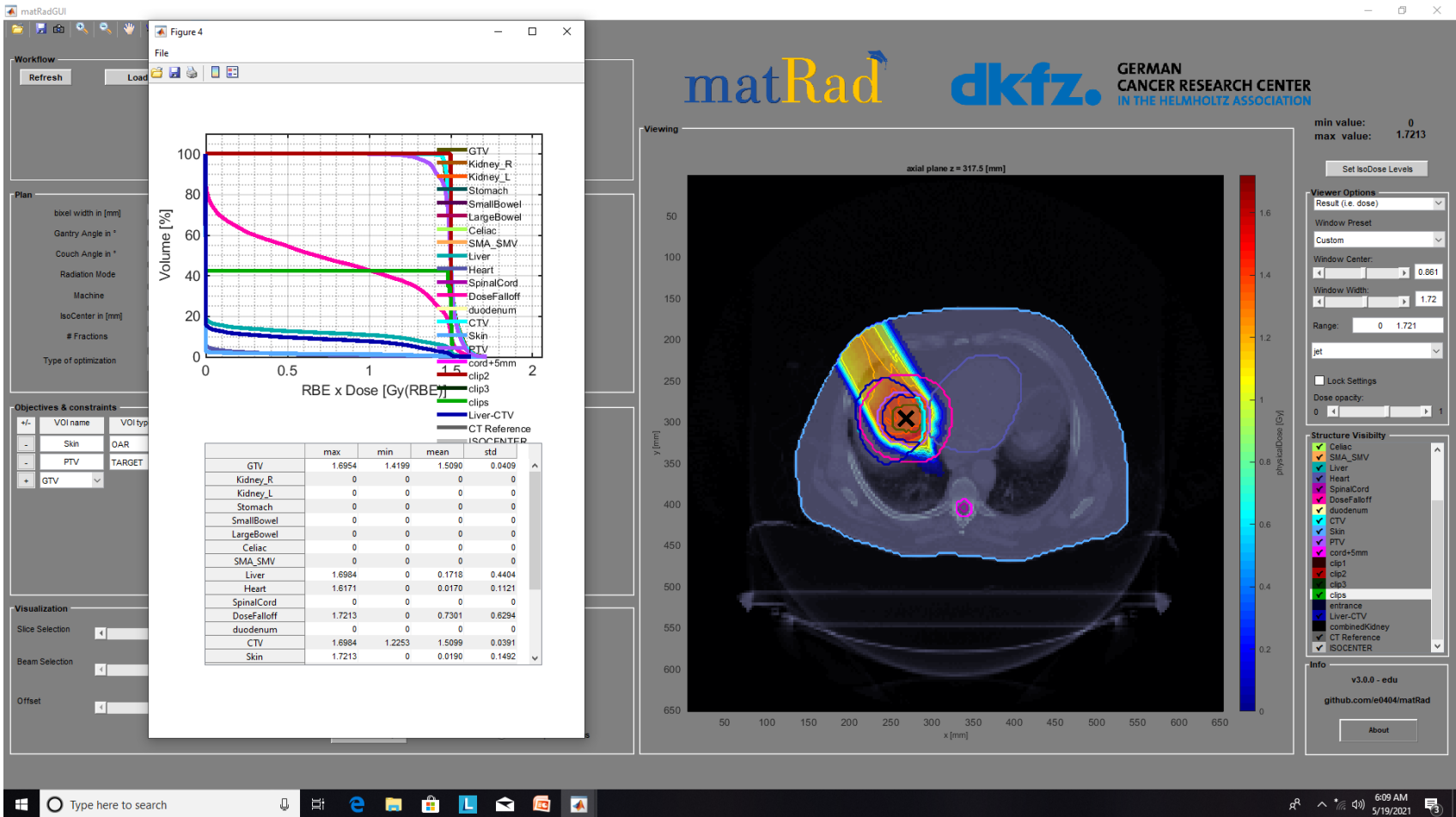
Structure Visibility:

- Cellac
- SIJA_SMV
- Liver
- Heart
- SpinalCord
- DoseFalloff
- Quodenum
- CTV
- Skin
- PTV
- cord+5mm
- clip1
- clip2
- clip3
- clips
- entrance
- Liver-CTV
- combinedKidney
- CT Reference
- ISOCENTER

Info:
 v3.0.0 - edu
 github.com/e0404/matRad
 About

Windows taskbar: Type here to search, 6:08 AM 5/19/2021

Pr 1 liver



pr 2 liver

Workflow

Refresh Load *.mat data Calc. influence Mx Optimize Save to GUI

Recalc

Status: plan is optimized

Plan

bixel width in [mm]: 5
Gantry Angle in °: 0 270
Couch Angle in °: 0 0
Radiation Mode: protons
Machine: Generic
IsoCenter in [mm]: 285.8 296.7 316.4
Fractions: 30
Type of optimization: const_RBExD

Objectives & constraints

±/.	VOI name	VOI type	OP	Function	p	Parameters
-	Skin	DAR	2	Squared Overdosing	300	d_{max} : 25
-	PTV	TARGET	1	Squared Deviation	1000	d_{ref} : 45
+	GTV					

Visualization

Slice Selection: [] Type of plot: intensity GoTo: lateral
Beam Selection: [] Plane Selection: axial Open 3D-View
Offset: [] Display option: physicalDose

Viewing

axial plane z = 317.5 [mm]

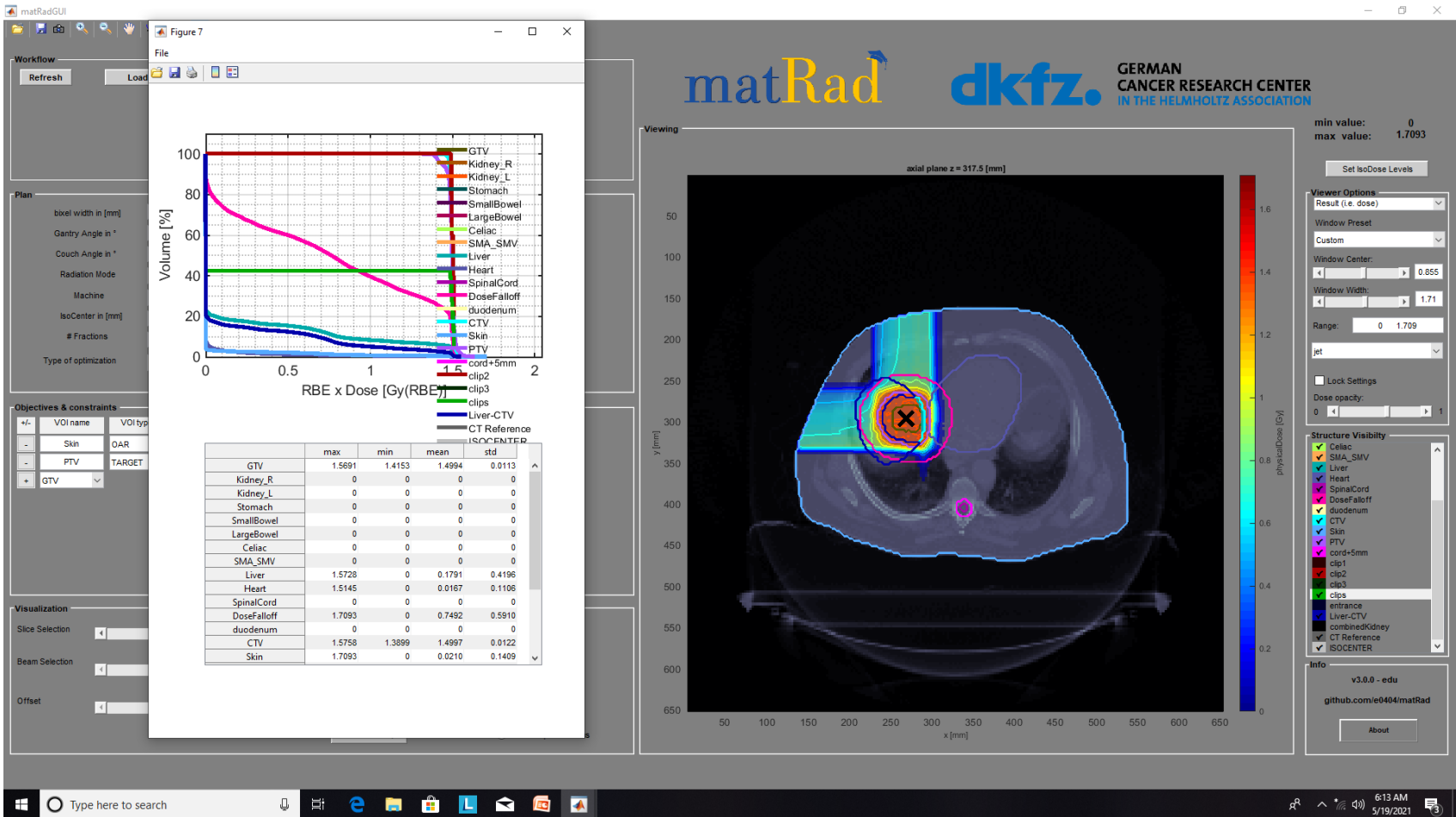
min value: 0
max value: 1.7093

Structure Visibility:

- Cellac
- SIVA_SMV
- Liver
- Heart
- SpinalCord
- DoseFalloff
- Quodenum
- CTV
- Skin
- PTV
- cord+5mm
- clip1
- clip2
- clip3
- clips
- entrance
- Liver-CTV
- combinedKidney
- CT Reference
- ISOCENTER

6:12 AM 5/19/2021

Pr 2 liver



Pr 1 prostate

matRadGUI

Workflow: Refresh Load *.mat data Calc. influence Mx Optimize Save to GUI Recalc

Status: plan is optimized

Plan:

bixel width in [mm]: 5
 Gantry Angle in °: 0
 Couch Angle in °: 0
 Radiation Mode: protons
 Machine: Generic
 IsoCenter in [mm]: 263.3 265.9 124
 # Fractions: 30
 Type of optimization: const_RBExD

Objectives & constraints:

#/.	VOI name	VOI type	OP	Function	p	Parameters
-	Rectum	OAR	3	Squared Overdosing	300	d_{max} : 50
-	PTV_68	TARGET	1	Squared Deviation	1000	d_{ref} : 68
-	PTV_56	TARGET	2	Squared Deviation	1000	d_{ref} : 56
-	Bladder	OAR	3	Squared Overdosing	300	d_{max} : 50
-	BODY	OAR	4	Squared Overdosing	100	d_{max} : 30
+	Rectum					

Visualization:

Slice Selection: [] Type of plot: intensity GoTo: lateral
 Beam Selection: [] Plane Selection: axial Open 3D-View
 Offset: [] Display option: physicalDose Show DVH/QI

Viewing: axial plane z = 126 [mm]

min value: 0
 max value: 2.3955

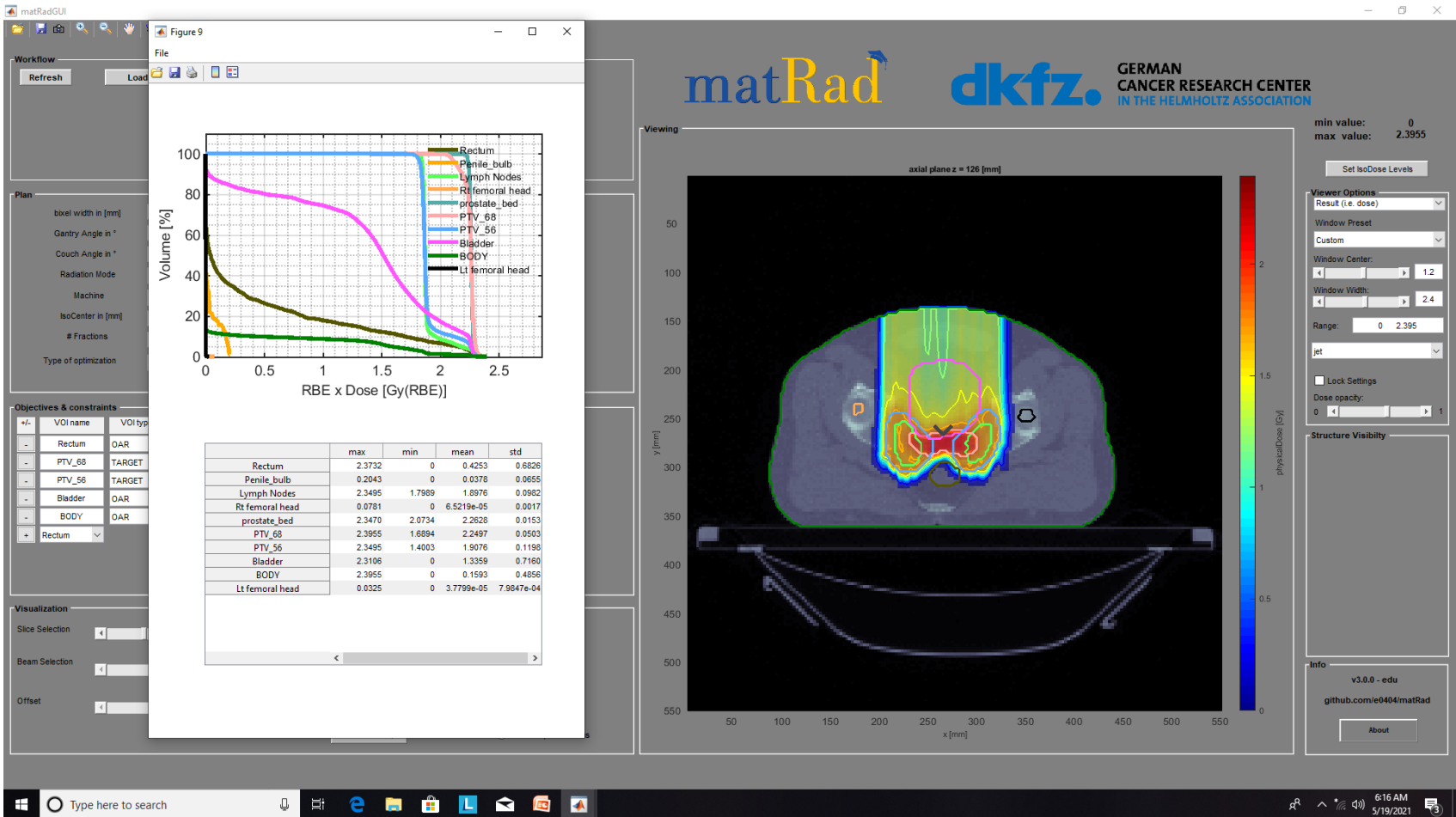
Viewer Options:
 Result (i.e. dose): Custom
 Window Preset: Custom
 Window Center: 1.2
 Window Width: 2.4
 Range: 0 2.395
 jet
 Lock Settings:
 Dose opacity: 0 1

Structure Visibility:

Info: v3.0.0 - edu
 github.com/e0404/matRad
 About

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Pr 1 prostate



Pr 2 prostate

matRadGUI

Workflow: Refresh Load *.mat data Calc. influence Mx Optimize Save to GUI Recalc

Status: plan is optimized

Plan:

bixel width in [mm]: 5
 Gantry Angle in °: 90 270
 Couch Angle in °: 0 0
 Radiation Mode: protons
 Machine: Generic
 IsoCenter in [mm]: 263.3 265.9 124
 # Fractions: 30
 Type of optimization: const_RBExD

Objectives & constraints:

#.	VOI name	VOI type	OP	Function	p	Parameters
-	Rectum	OAR	3	Squared Overdosing	300	d^{max} : 50
-	PTV_68	TARGET	1	Squared Deviation	1000	d^{ref} : 68
-	PTV_56	TARGET	2	Squared Deviation	1000	d^{ref} : 56
-	Bladder	OAR	3	Squared Overdosing	300	d^{max} : 50
-	BODY	OAR	4	Squared Overdosing	100	d^{max} : 30
+	Rectum					

Visualization:

Slice Selection: [] Type of plot: intensity GoTo: lateral
 Beam Selection: [] Plane Selection: axial Open 3D-View
 Offset: [] Display option: physicalDose Show DVH/QI

Viewing:

axial plane z = 126 [mm]

min value: 0
 max value: 2.3721

Viewer Options:
 Result (i.e. dose): Custom
 Window Preset: Custom
 Window Center: 1.19
 Window Width: 2.37
 Range: 0 2.372
 jet
 Lock Settings:
 Dose opacity: 0 1

Structure Visibility:

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 About

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pr 2 prostate

