Winston-Lutz Analysis

Metadata:

Autor: William A. P. dos Santos

Função: Físico

Acelerador Linear: Synergy Full

Modelo MLC: Agility

Winston-Lutz Analysis
=================================

Number of images: 9

Maximum 2D CAX->BB distance: 1.09mm

Median 2D CAX->BB distance: 0.69mm

Shift to iso: facing gantry, move BB: RIGHT 0.37mm; IN 0.05mm; DOWN 0.67mm

Gantry 3D isocenter diameter: 1.20mm (4/9 images considered)

Maximum Gantry RMS deviation (mm): 0.92mm
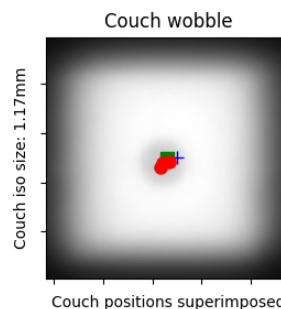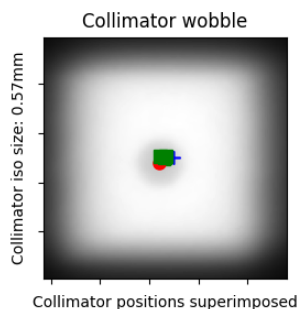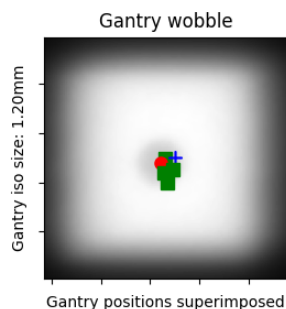
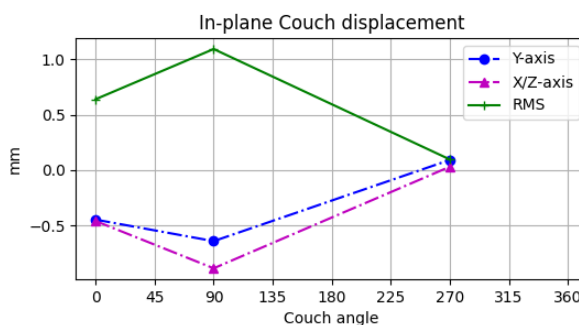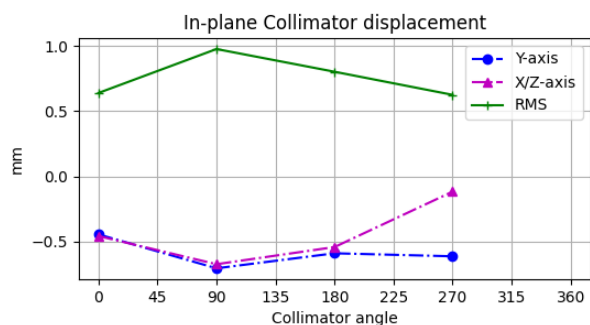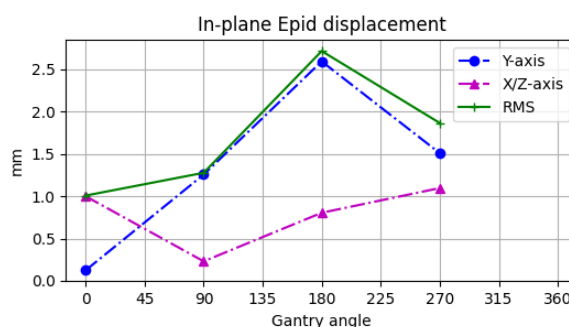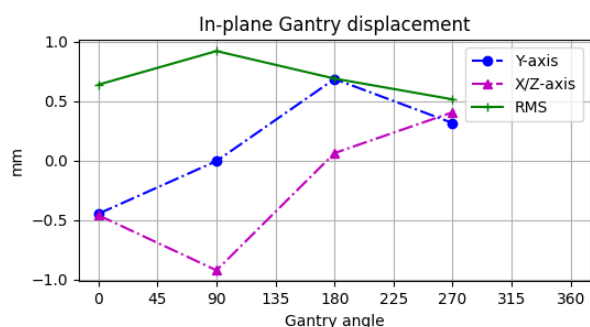Maximum EPID RMS deviation (mm): 2.71mm

Gantry+Collimator 3D isocenter diameter: 1.52mm (7/9 images considered)

Collimator 2D isocenter diameter: 0.57mm (4/9 images considered)

Maximum Collimator RMS deviation (mm): 0.98

Couch 2D isocenter diameter: 1.17mm (3/9 images considered)

Maximum Couch RMS deviation (mm): 1.09

In-plane Gantry displacement

In-plane Epid displacement

In-plane Collimator displacement

In-plane Couch displacement

Gantry wobble

Gantry iso size: 1.20mm

Gantry positions superimposed

Collimator wobble

Collimator iso size: 0.57mm

Collimator positions superimposed

Couch wobble

Couch iso size: 1.17mm

Couch positions superimposed

Notes:

Análise de Winston-Lutz com pylinac

Campo 2 cm X 2 cm

Tolerância: 1 mm

Limite de ação: 0.8 mm

Local das imagens: ./WL_IOSP_20201216\WL_2020-10-28_A

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Gantry images
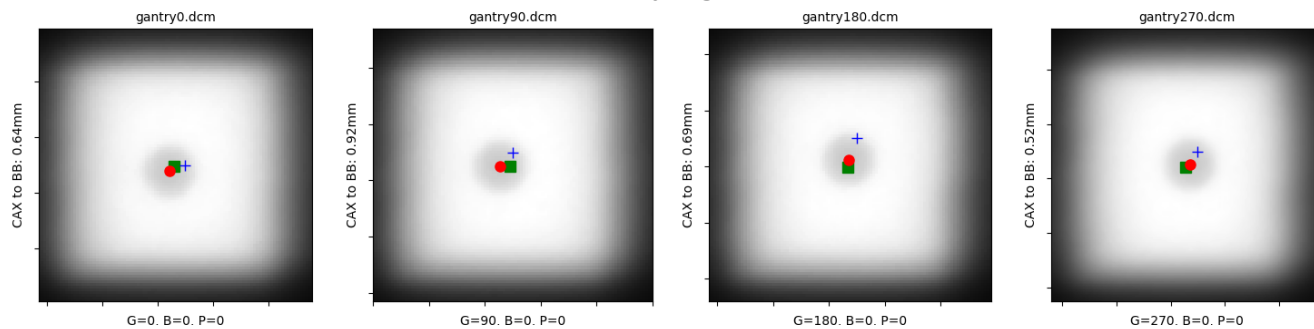
gantry0.dcm

CAX to BB: 0.64mm

G=0. B=0. P=0

gantry90.dcm

CAX to BB: 0.92mm

G=90. B=0. P=0

gantry180.dcm

CAX to BB: 0.69mm

G=180. B=0. P=0

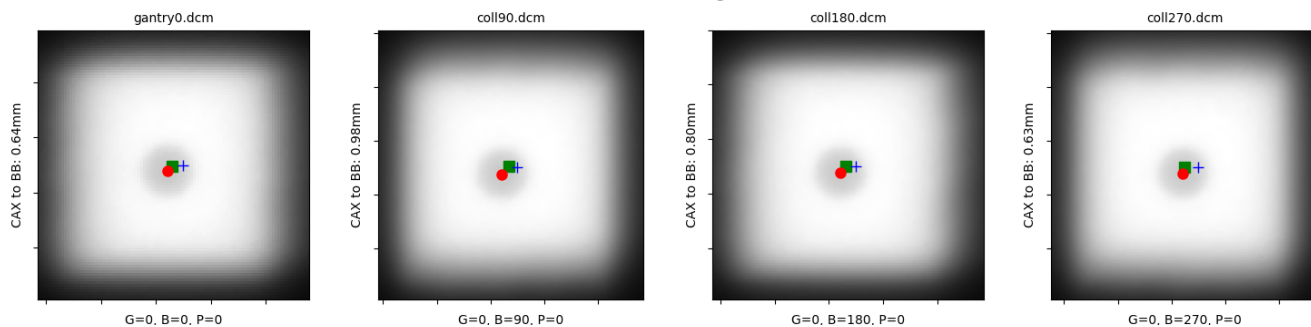gantry270.dcm

CAX to BB: 0.52mm

G=270. B=0. P=0

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Collimator images

gantry0.dcm	coll90.dcm	coll180.dcm	coll270.dcm
CAX to BB: 0.64mm	CAX to BB: 0.98mm	CAX to BB: 0.80mm	CAX to BB: 0.63mm
G=0, B=0, P=0	G=0, B=90, P=0	G=0, B=180, P=0	G=0, B=270, P=0

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Couch images

gantry0.dcm	couch90.dcm	couch270.dcm
CAX to BB: 0.64mm	CAX to BB: 1.09mm	CAX to BB: 0.10mm
G=0. B=0. P=0	G=0. B=0. P=90	G=0. B=0. P=270