Winston-Lutz Analysis

Metadata:
Autor: William A. P. dos Santos
Função: Físico
Acelerador Linear: Synergy Full
Modelo MLC: Agility

Winston-Lutz Analysis
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Number of images: 9
Maximum 2D CAX->BB distance: 1.12mm
Median 2D CAX->BB distance: 0.63mm
Shift to iso: facing gantry, move BB: RIGHT 0.07mm; IN 0.20mm; DOWN 0.29mm
Gantry 3D isocenter diameter: 1.13mm (4/9 images considered)
Maximum Gantry RMS deviation (mm): 0.63mm
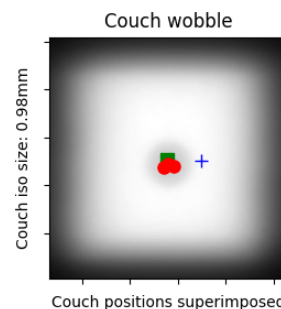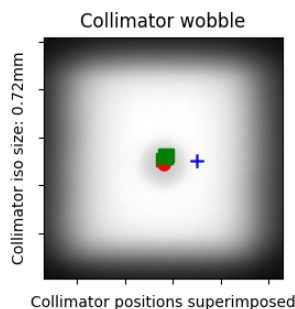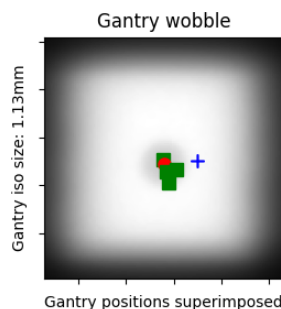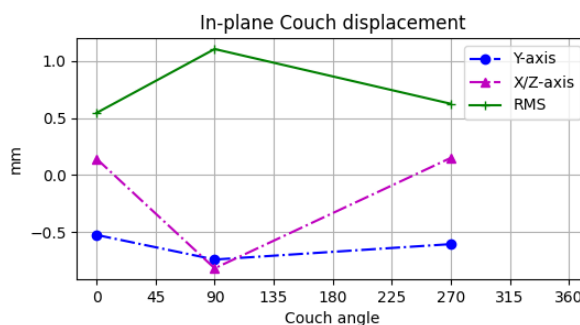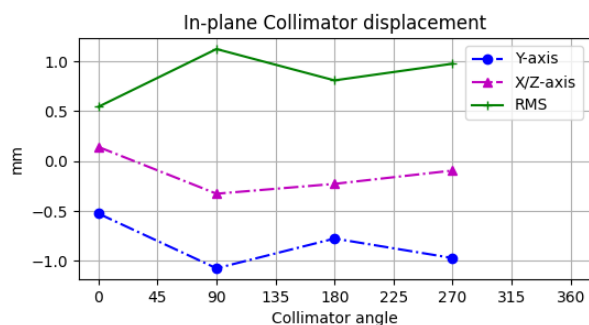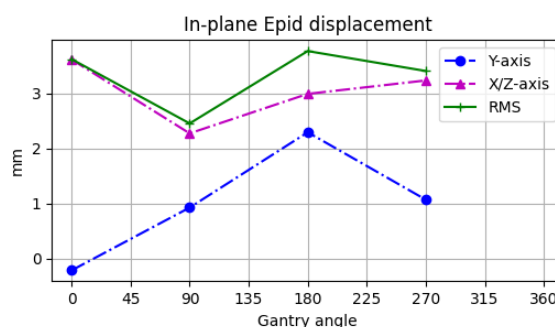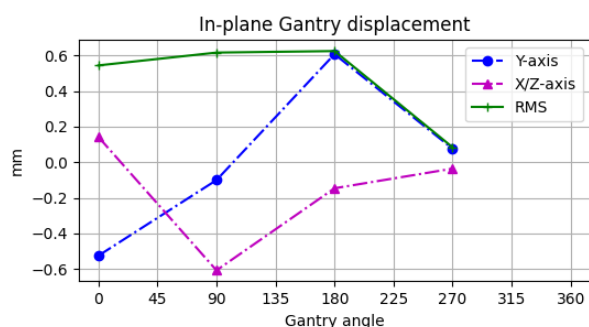Maximum EPID RMS deviation (mm): 3.78mm
Gantry+Collimator 3D isocenter diameter: 1.75mm (7/9 images considered)
Collimator 2D isocenter diameter: 0.72mm (4/9 images considered)
Maximum Collimator RMS deviation (mm): 1.12
Couch 2D isocenter diameter: 0.98mm (3/9 images considered)
Maximum Couch RMS deviation (mm): 1.10

In-plane Gantry displacement

In-plane Epid displacement

In-plane Collimator displacement

In-plane Couch displacement

Gantry wobble
Gantry iso size: 1.13mm
Gantry positions superimposed

Collimator wobble
Collimator iso size: 0.72mm
Collimator positions superimposed

Couch wobble
Couch iso size: 0.98mm
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_2020-12-02

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Gantry images
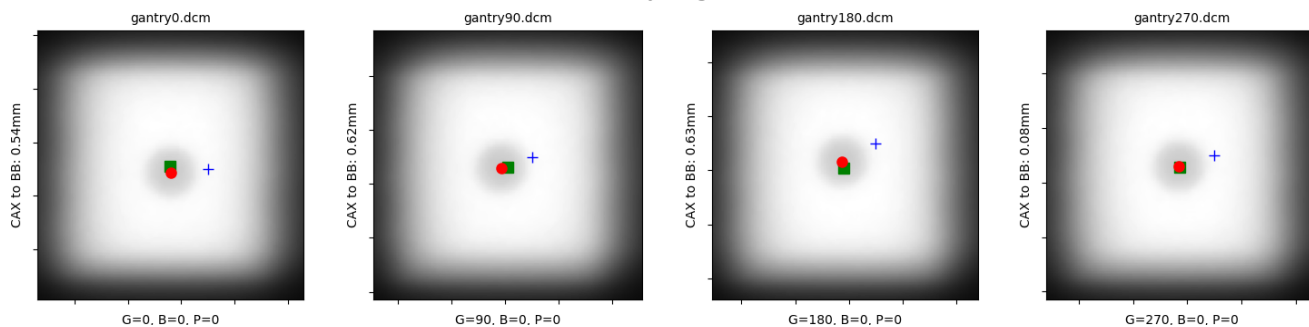
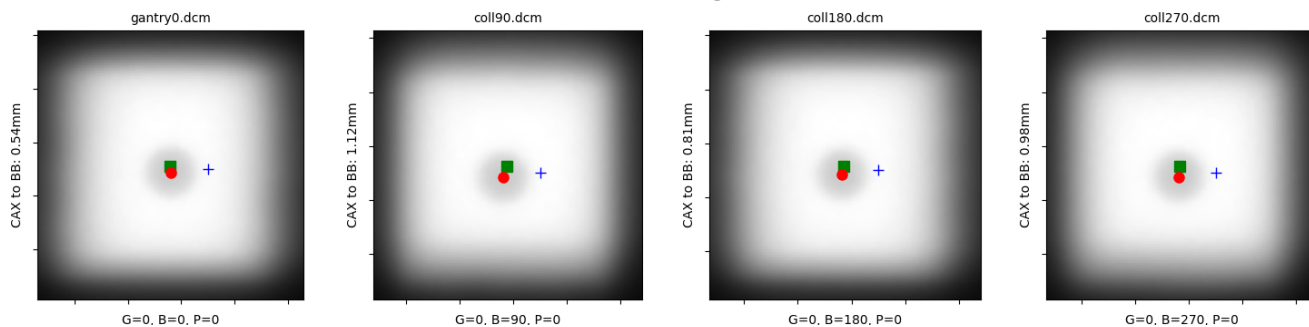| gantry0.dcm	gantry90.dcm	gantry180.dcm	gantry270.dcm
CAX to BB: 0.54mm	CAX to BB: 0.62mm	CAX to BB: 0.63mm	CAX to BB: 0.08mm
G=0, B=0, P=0	G=90, B=0, P=0	G=180, B=0, P=0	G=270, B=0, P=0

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Collimator images

gantry0.dcm	coll90.dcm	coll180.dcm	coll270.dcm
CAX to BB: 0.54mm	CAX to BB: 1.12mm	CAX to BB: 0.81mm	CAX to BB: 0.98mm
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 — CAX to BB: 0.54mm — G=0, B=0, P=0

couch90.dcm — CAX to BB: 1.10mm — G=0, B=0, P=90

couch270.dcm — CAX to BB: 0.62mm — G=0, B=0, P=270