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: 8
Maximum 2D CAX->BB distance: 0.77mm
Median 2D CAX->BB distance: 0.60mm
Shift to iso: facing gantry, move BB: RIGHT 0.19mm; IN 0.34mm; DOWN 0.01mm
Gantry 3D isocenter diameter: 0.62mm (4/8 images considered)
Maximum Gantry RMS deviation (mm): 0.64mm
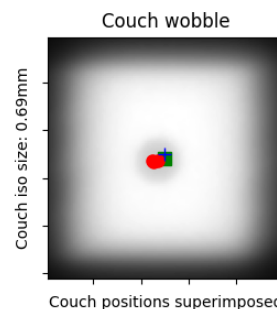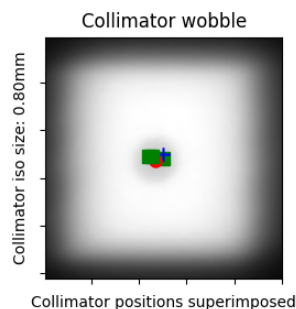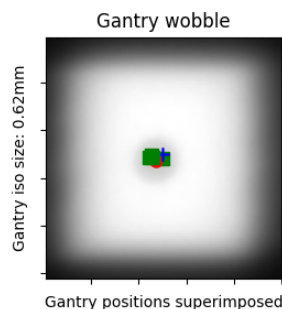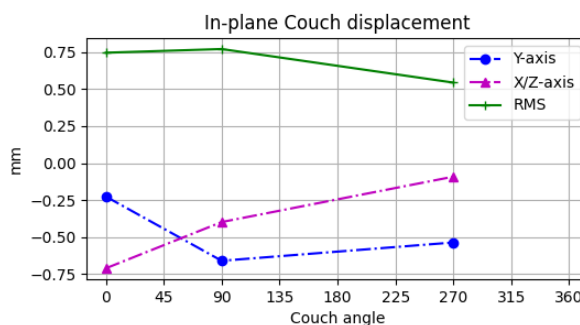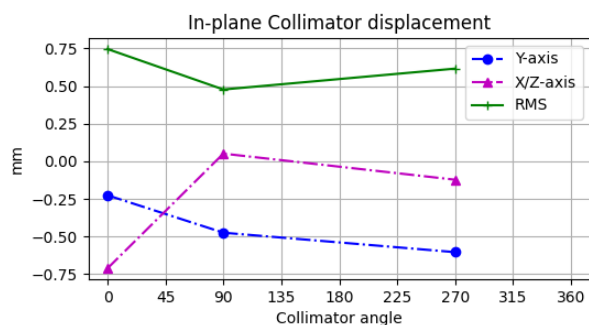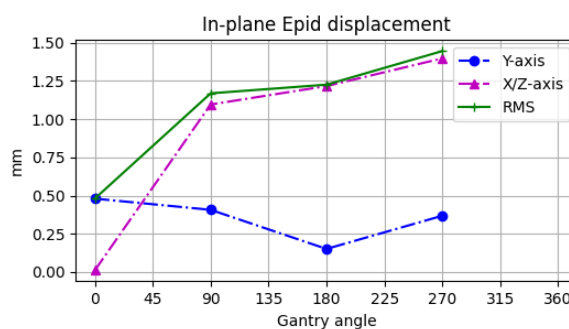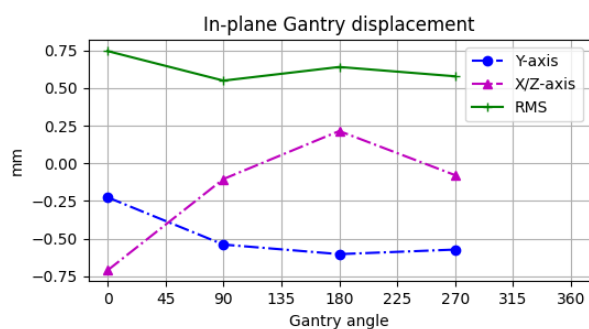Maximum EPID RMS deviation (mm): 1.54mm
Gantry+Collimator 3D isocenter diameter: 0.80mm (6/8 images considered)
Collimator 2D isocenter diameter: 0.80mm (3/8 images considered)
Maximum Collimator RMS deviation (mm): 0.62
Couch 2D isocenter diameter: 0.69mm (3/8 images considered)
Maximum Couch RMS deviation (mm): 0.77

In-plane Gantry displacement

In-plane Epid displacement

In-plane Collimator displacement

In-plane Couch displacement

Gantry wobble
Gantry positions superimposed

Collimator wobble
Collimator positions superimposed

Couch wobble
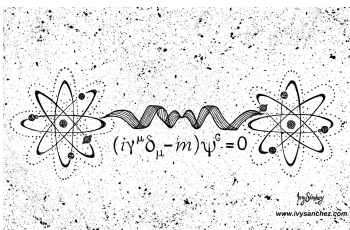Couch positions superimposed

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\WL_2020-07-24_analisado

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Gantry images
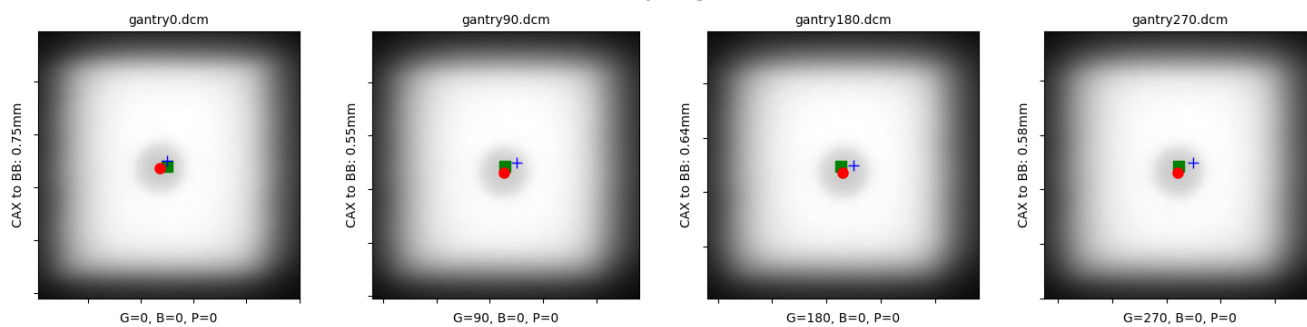
gantry0.dcm — CAX to BB: 0.75mm — G=0, B=0, P=0
gantry90.dcm — CAX to BB: 0.55mm — G=90, B=0, P=0
gantry180.dcm — CAX to BB: 0.64mm — G=180, B=0, P=0
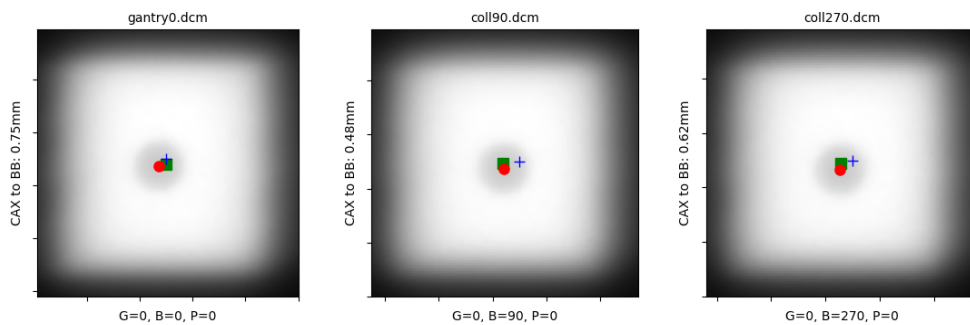gantry270.dcm — CAX to BB: 0.58mm — G=270, B=0, P=0

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Collimator images

gantry0.dcm	coll90.dcm	coll270.dcm
CAX to BB: 0.75mm	CAX to BB: 0.48mm	CAX to BB: 0.62mm
G=0, B=0, P=0	G=0, B=90, P=0	G=0, B=270, P=0

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Couch images

gantry0.dcm	couch90.dcm	couch270.dcm
CAX to BB: 0.75mm	CAX to BB: 0.77mm	CAX to BB: 0.54mm
G=0, B=0, P=0	G=0, B=0, P=90	G=0, B=0, P=270