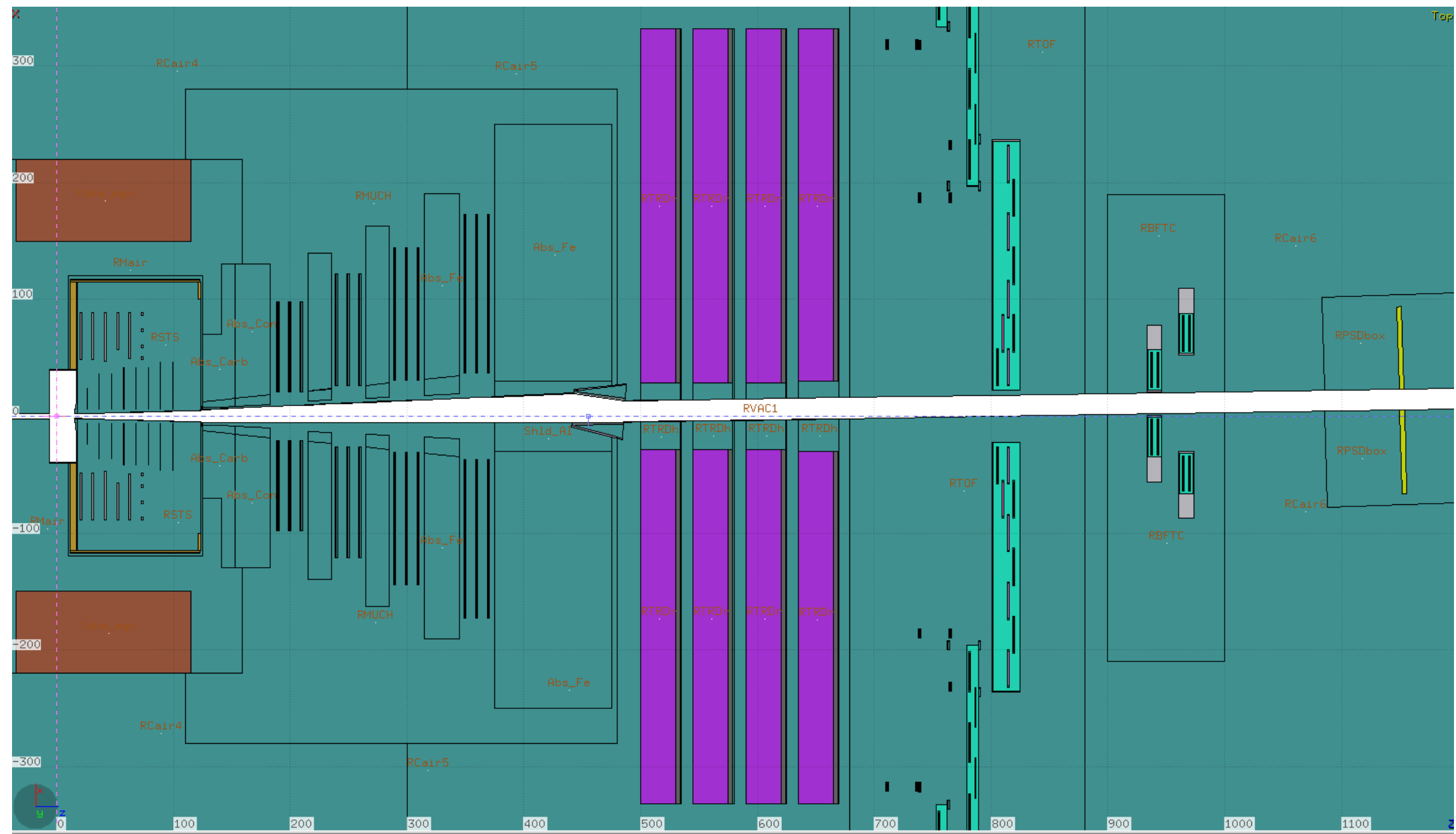


# FSD FLUKA Simulations

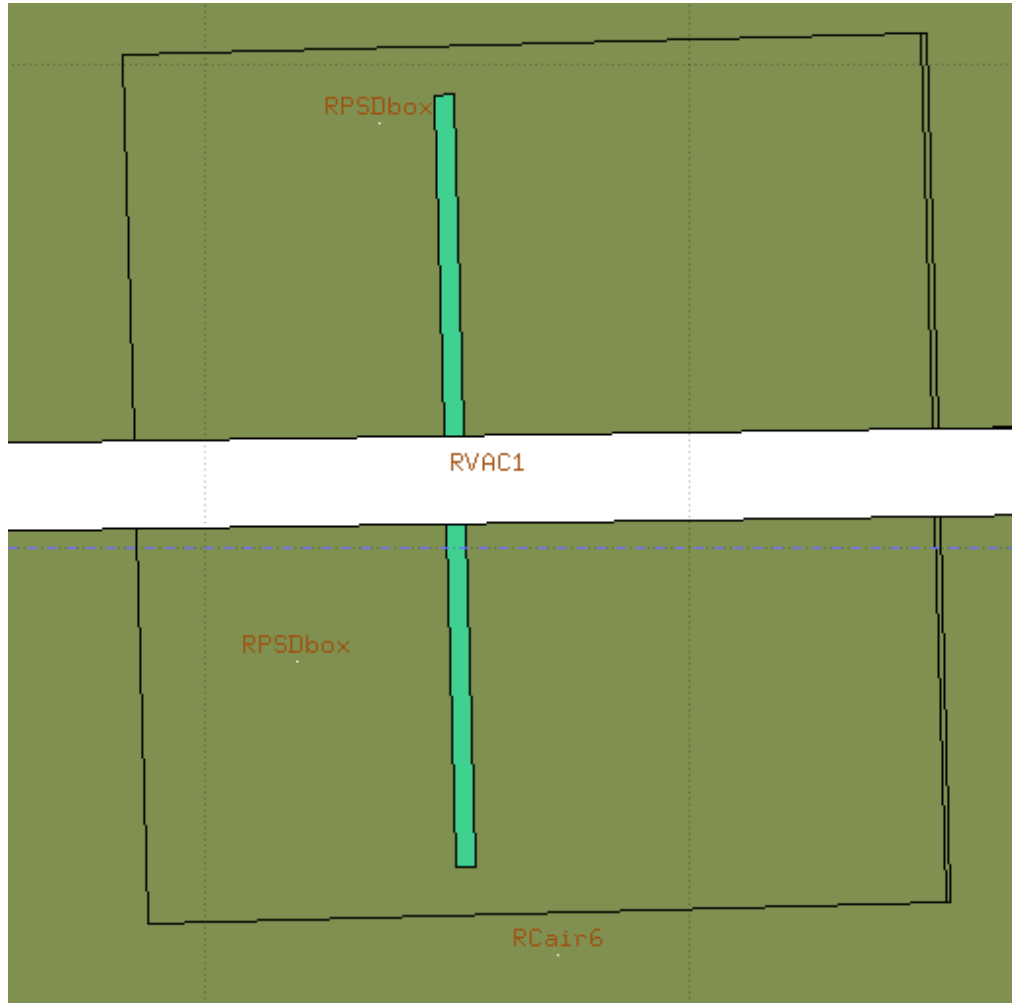
Ondřej Hofman

# Geometry

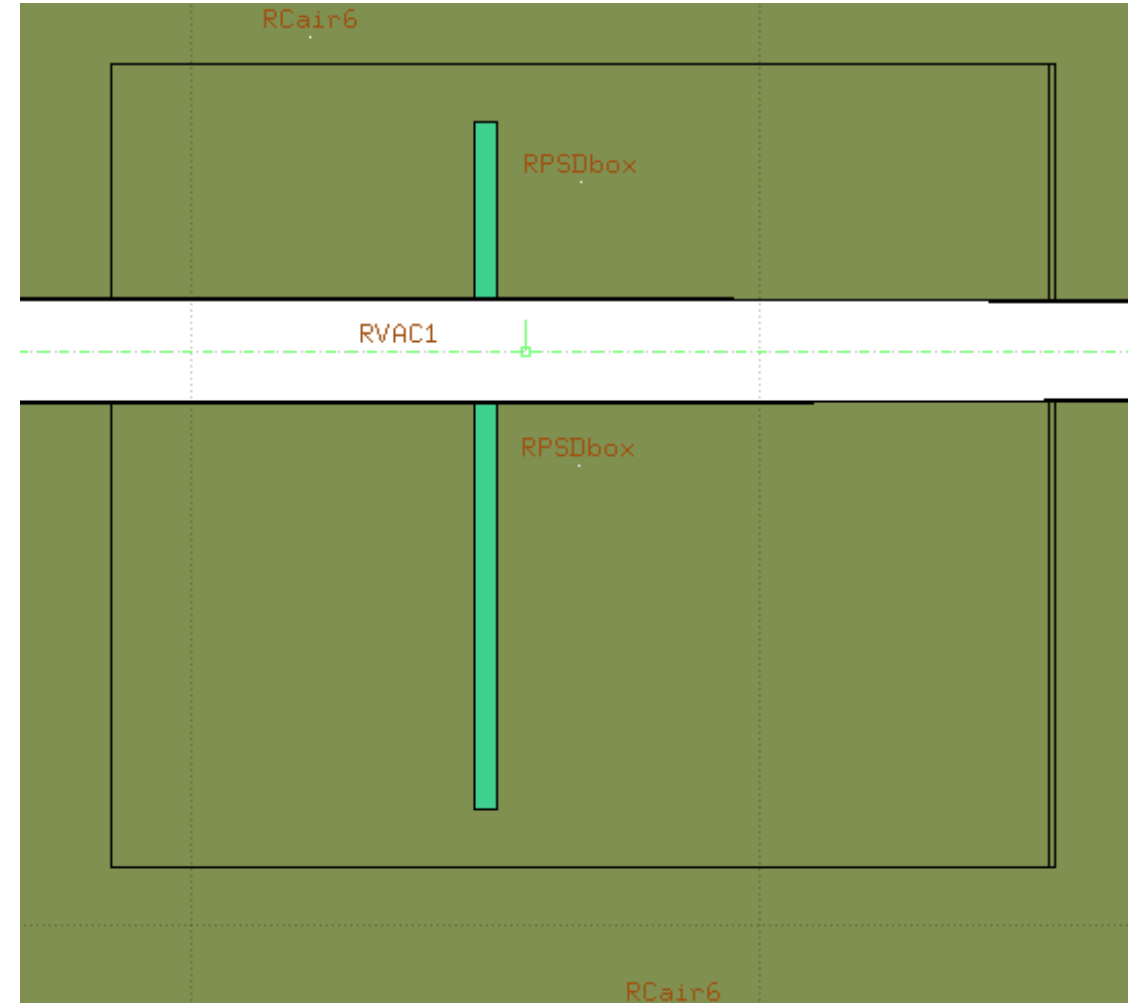


# Geometry - FSD

Top view

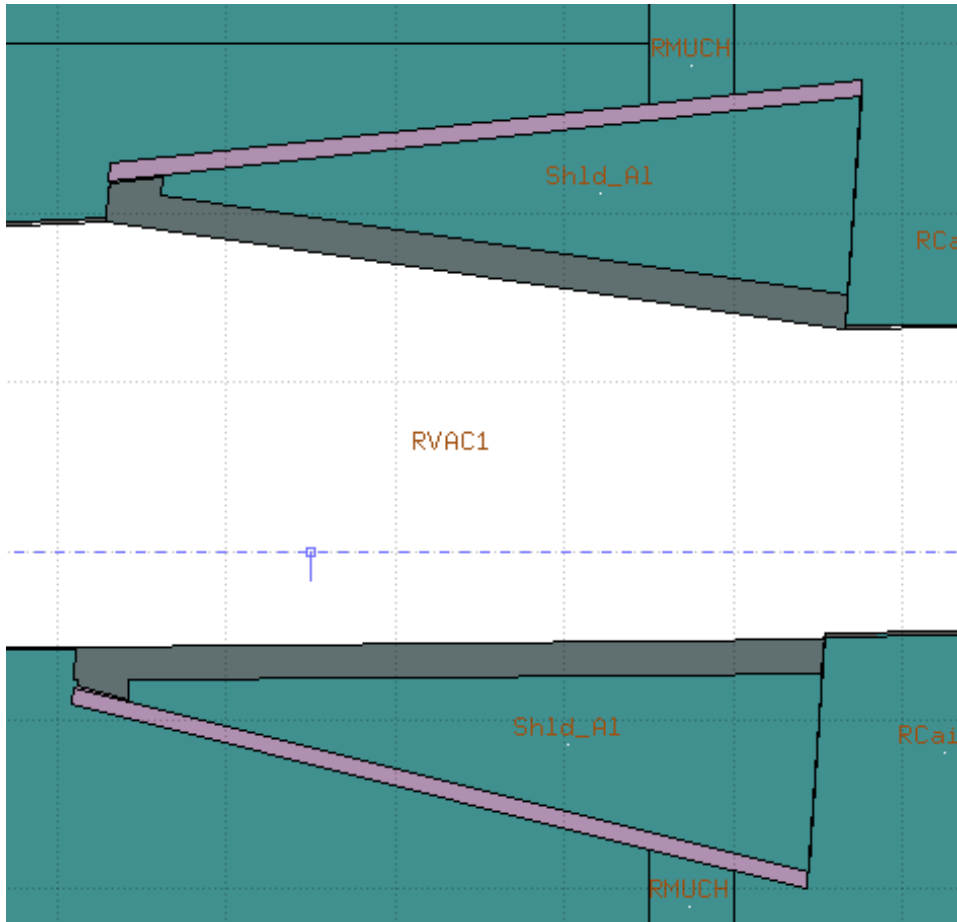


Side view

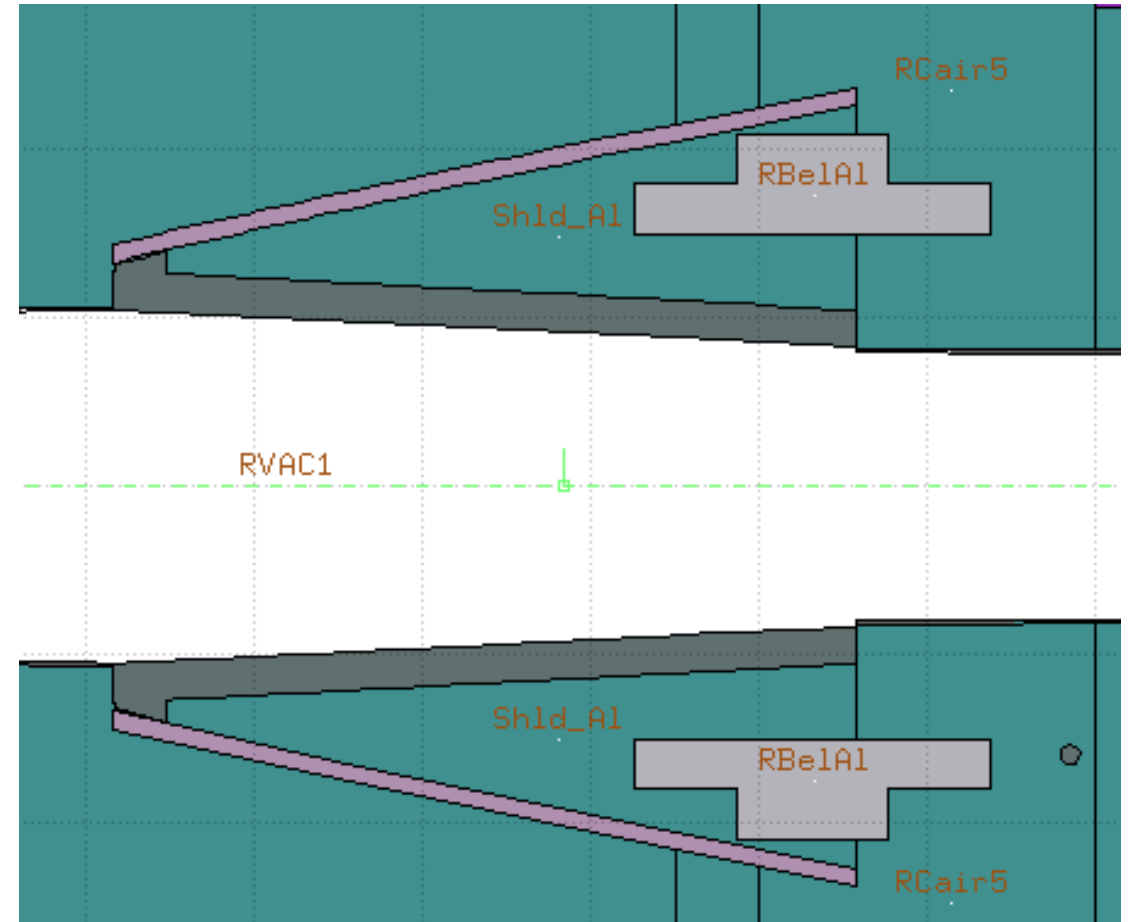


# Geometry - bellow

Top view

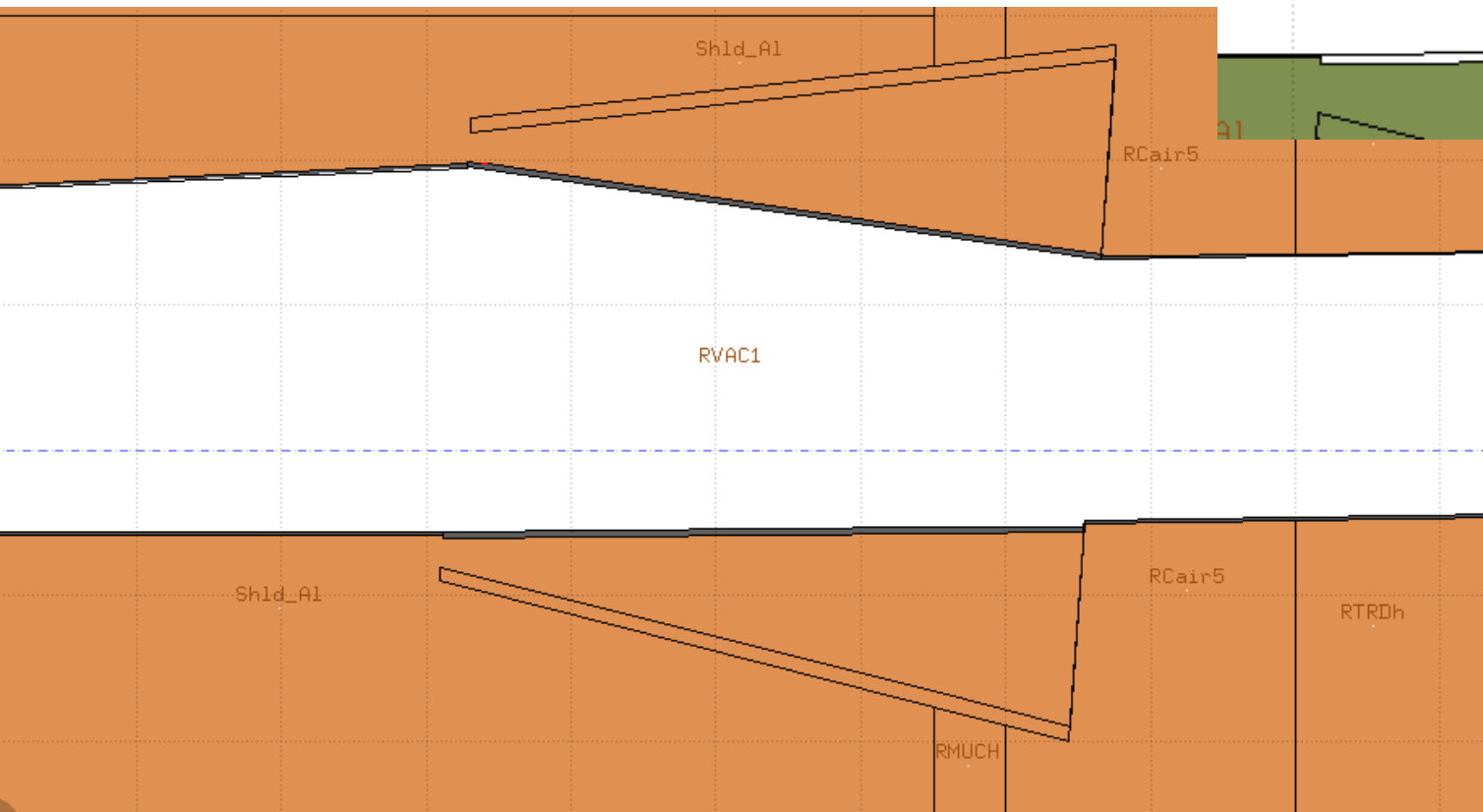


Side view

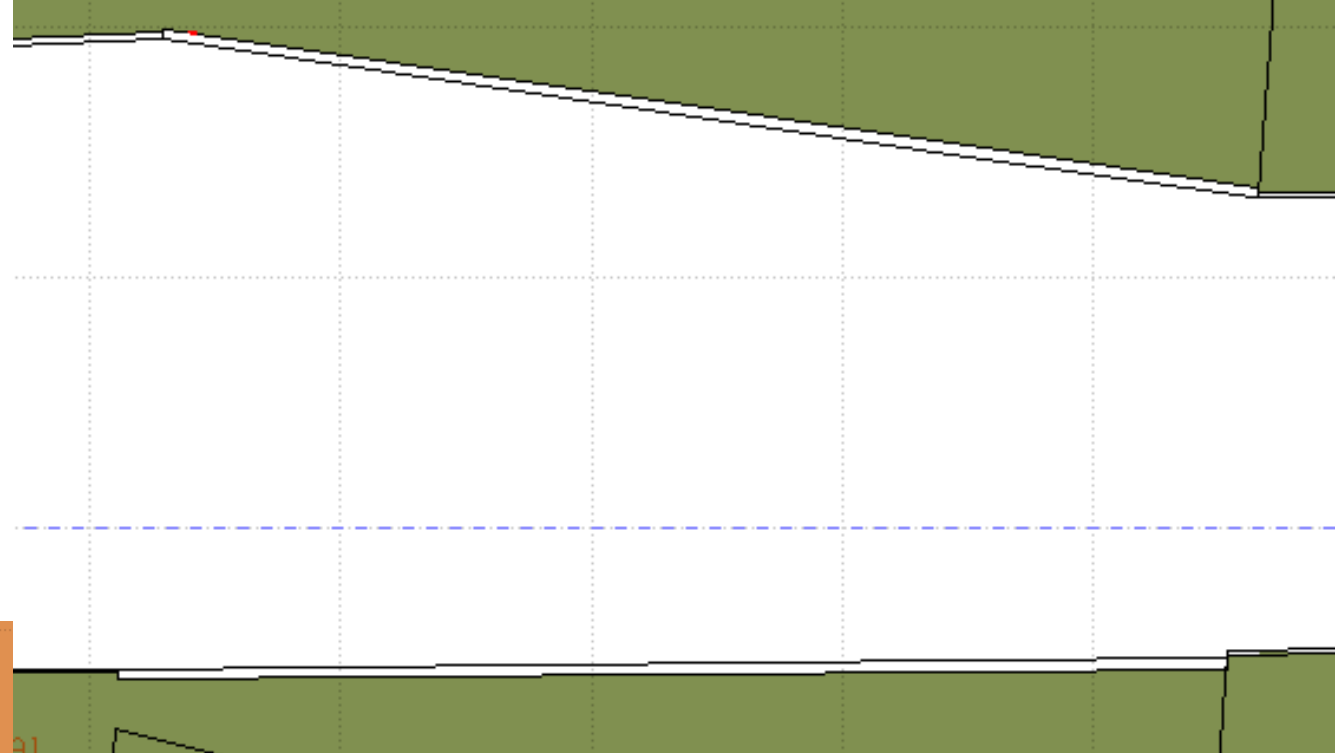


# Geometry – beam pipe

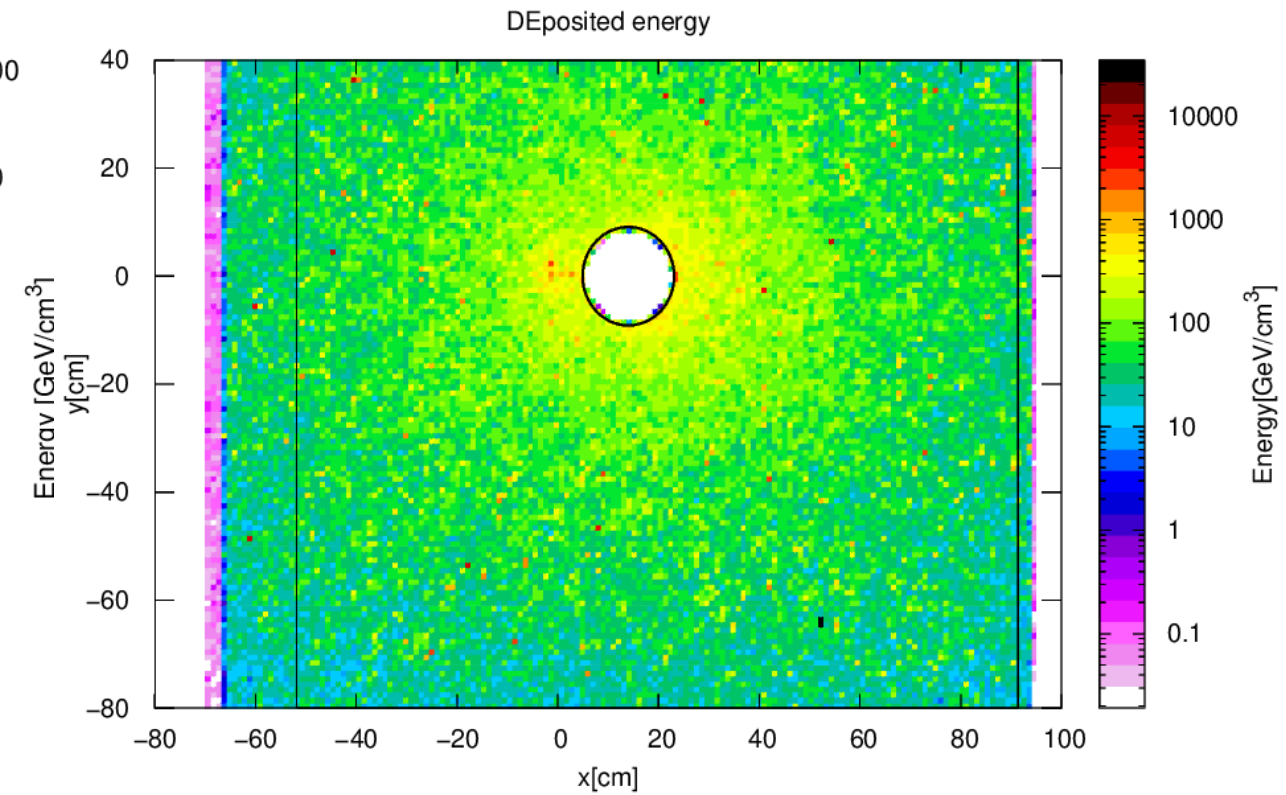
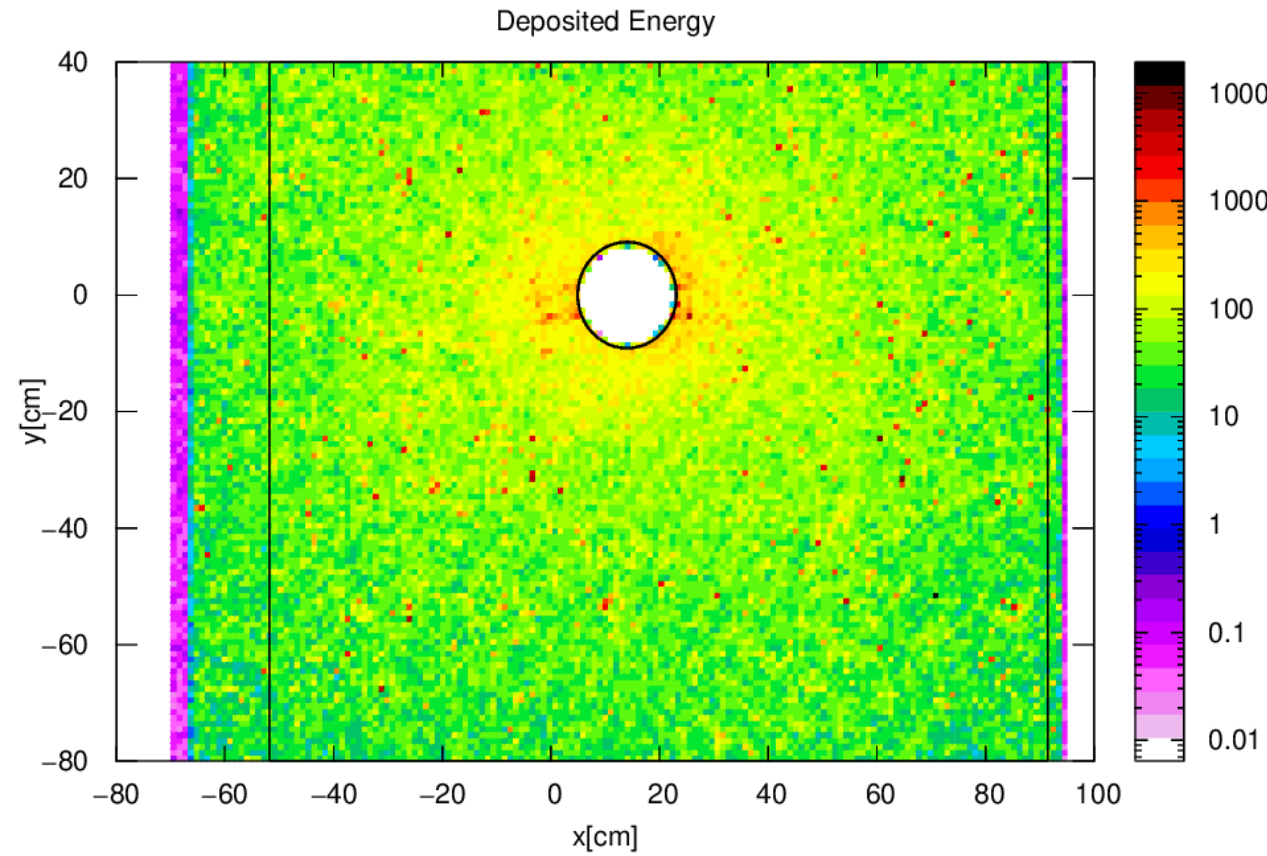
Without bellow



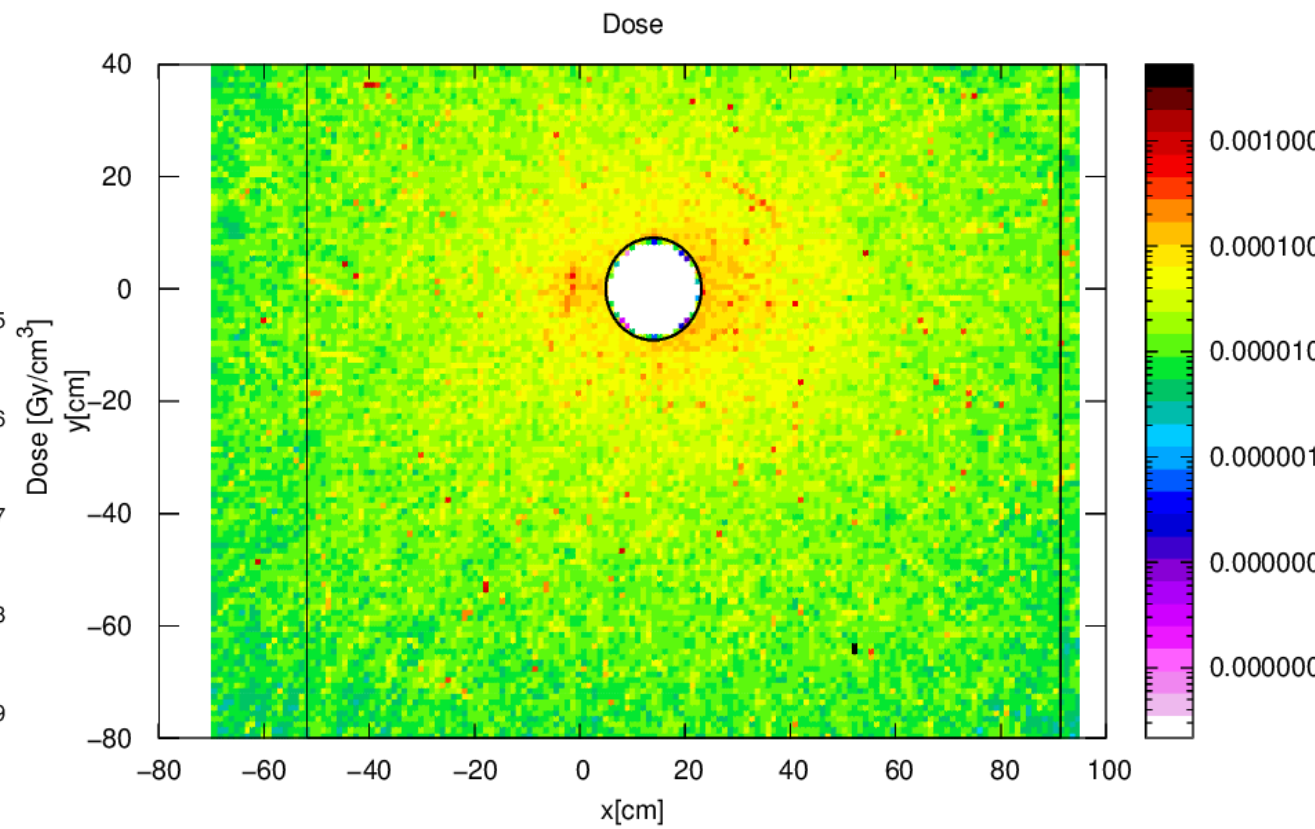
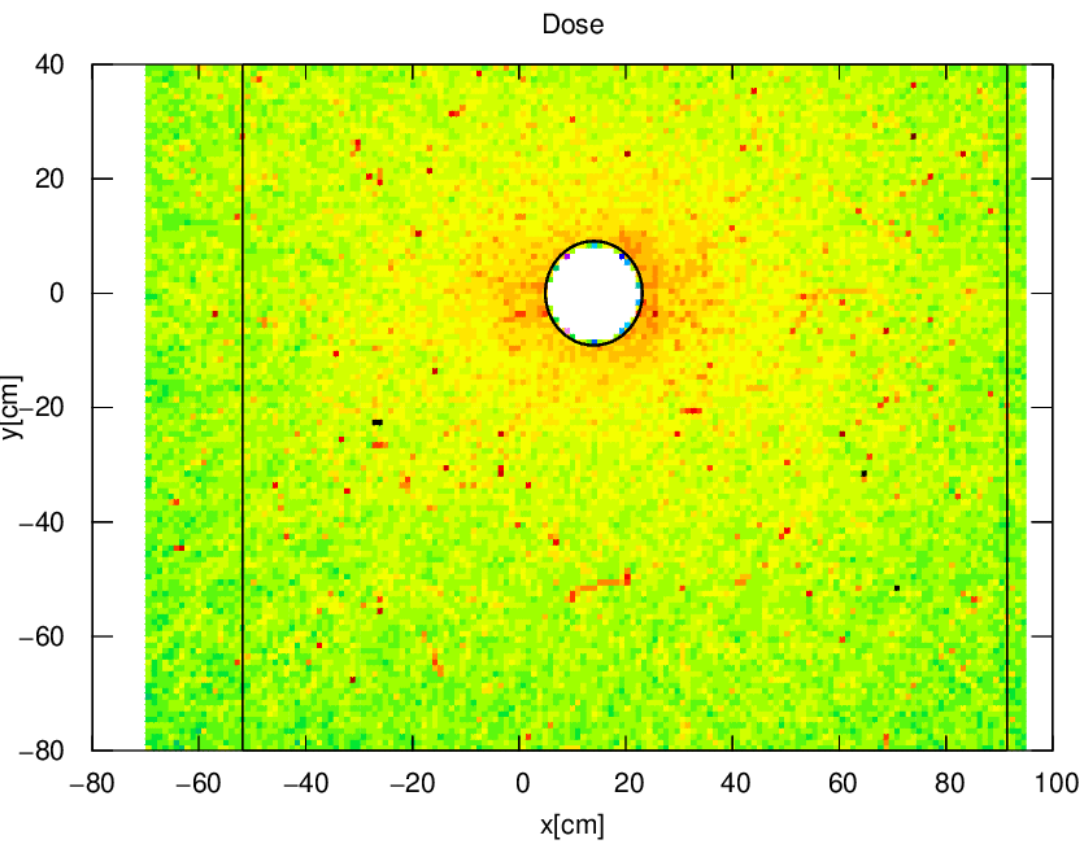
Without bellow and beam  
pipe



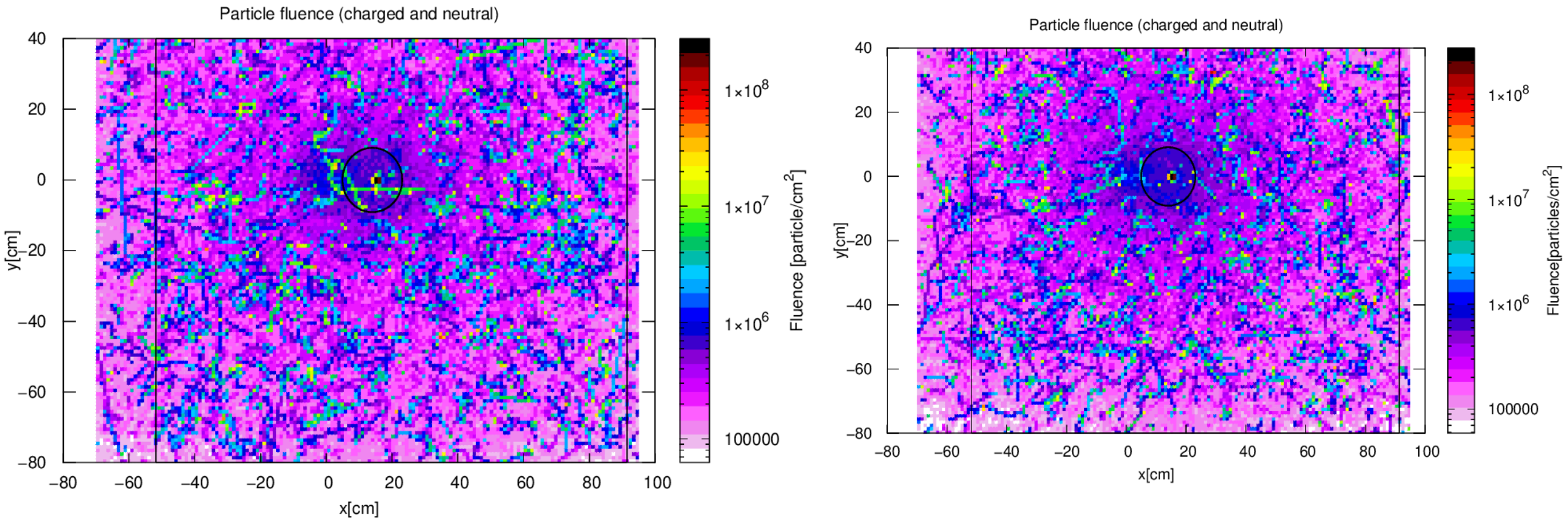
# Results - energy



# Results - dose



# Results - particle fluence (charged and neutral)

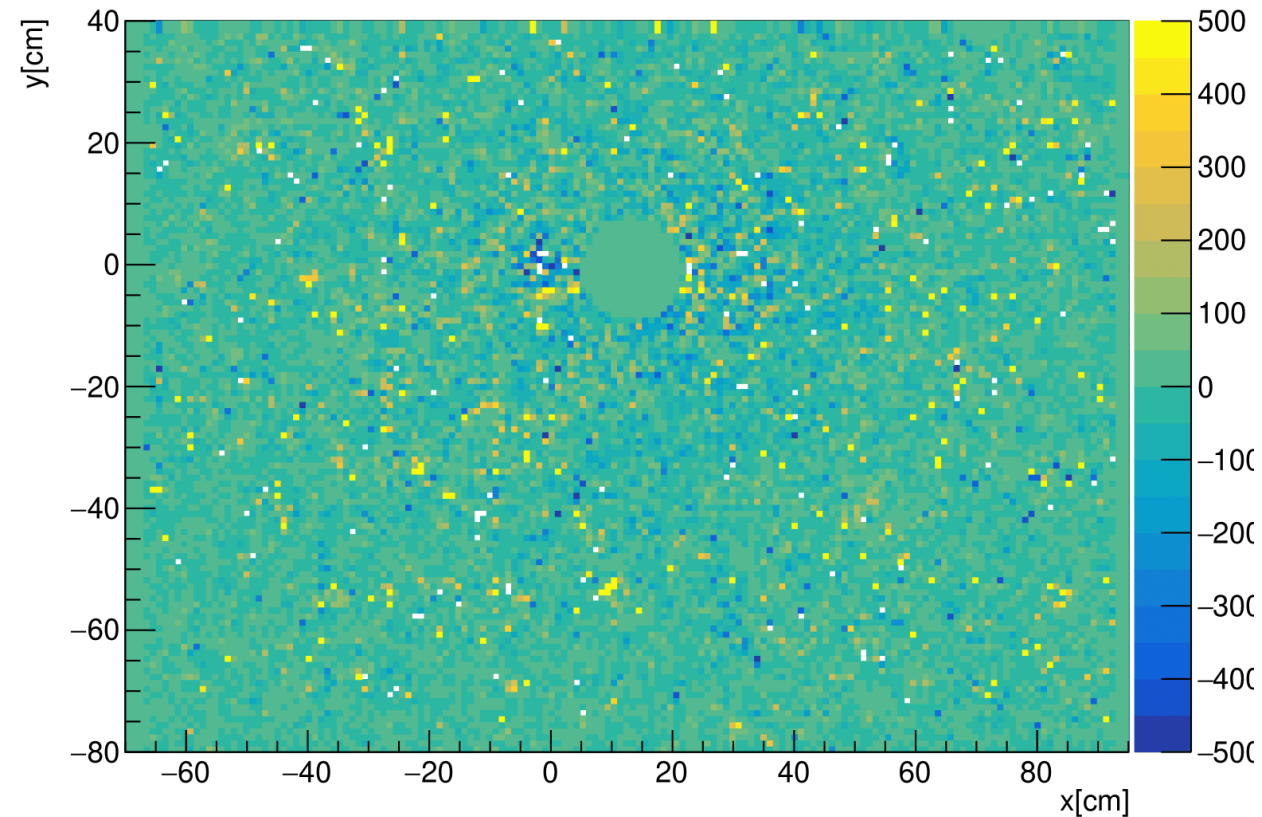




# Subtracted histograms - energy

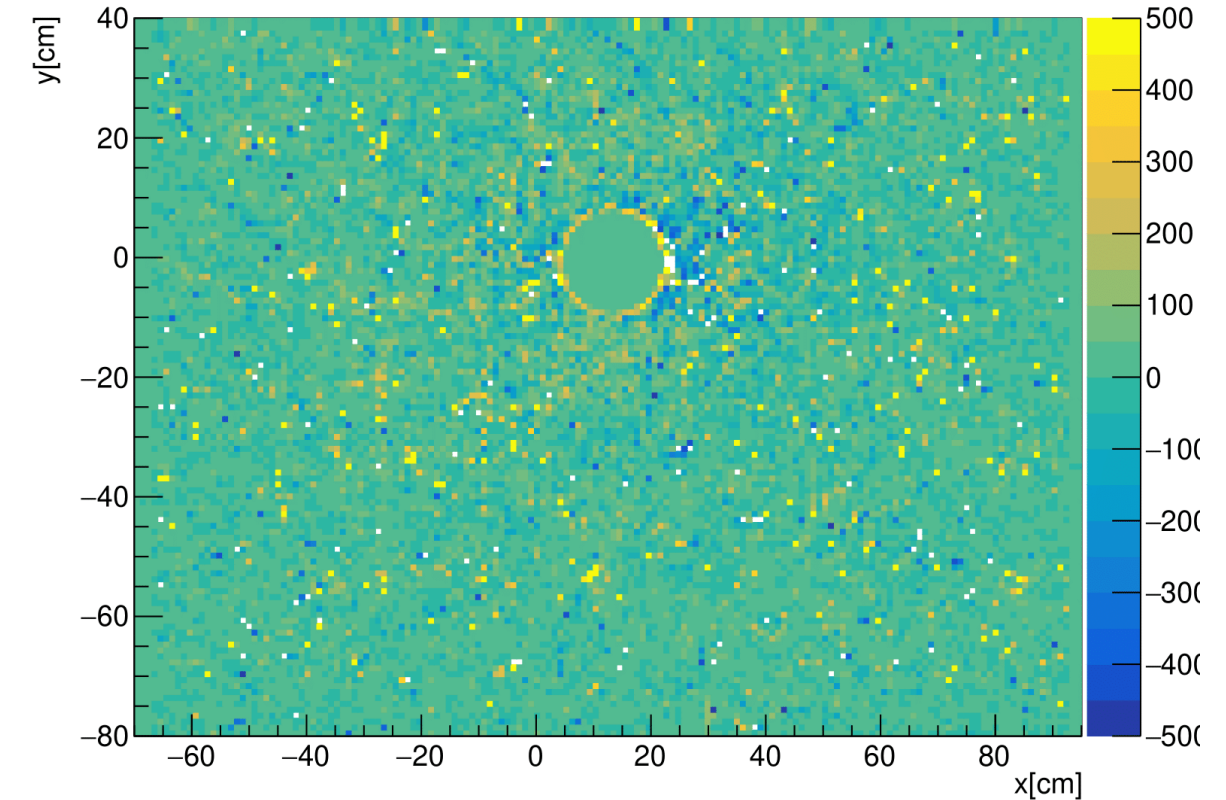
With bellow – without bellow

Energy



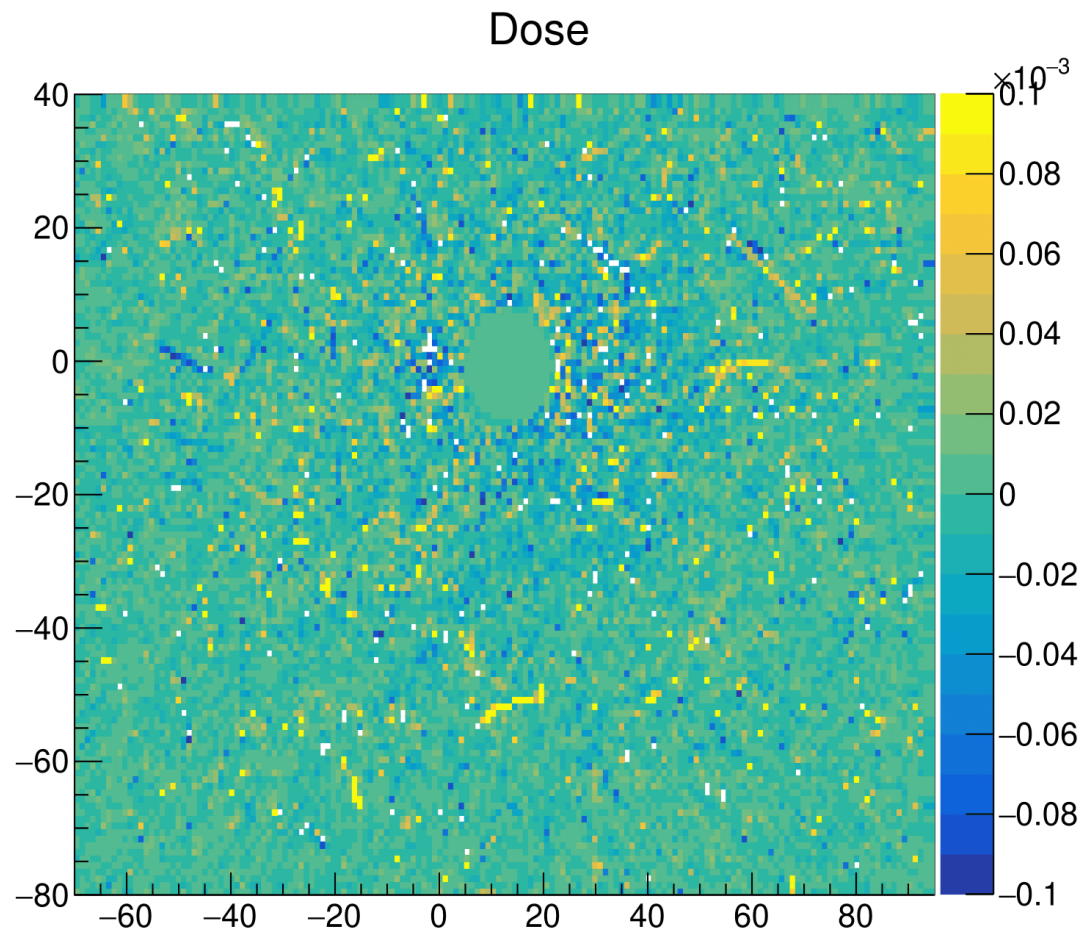
With bellow – without bellow and beam pipe

Energy

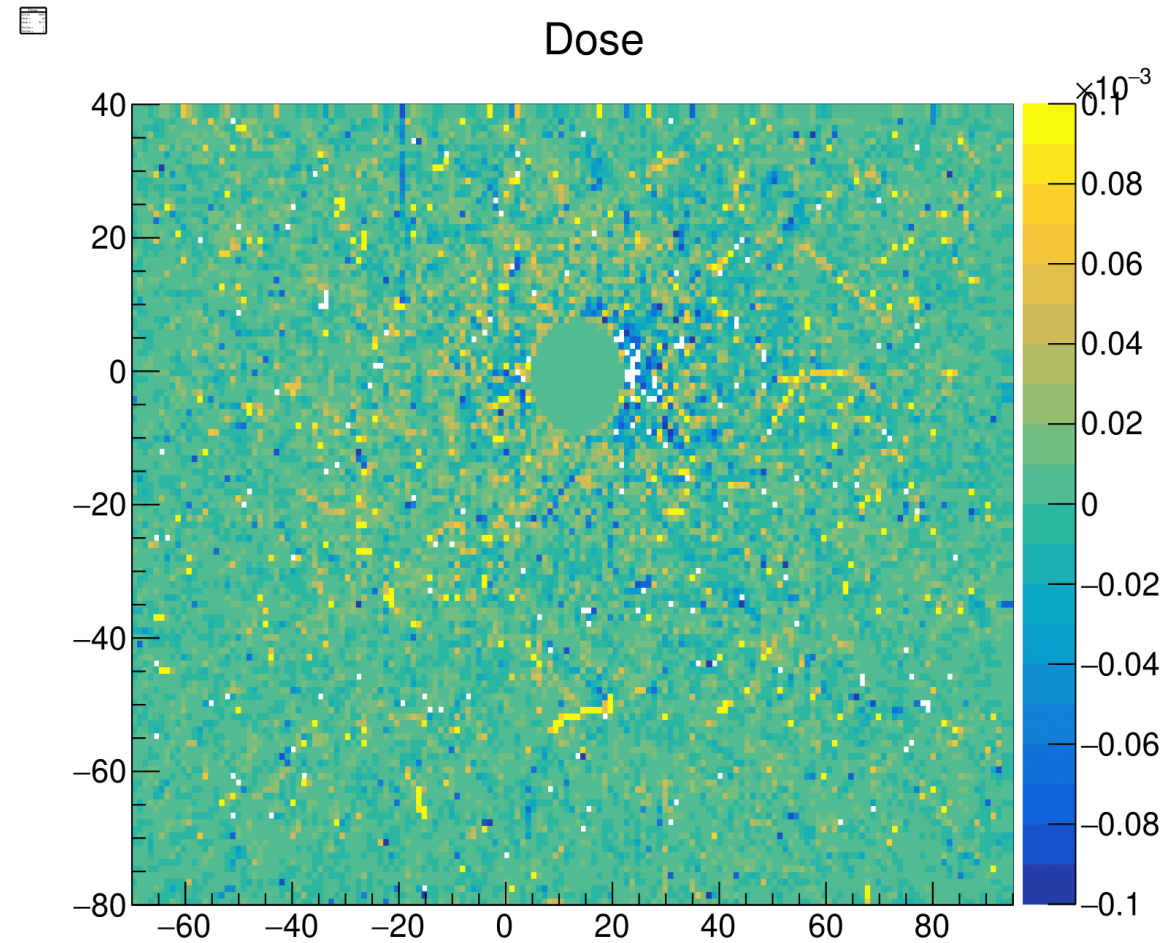


# Subtracted histograms - dose

With bellow – without bellow



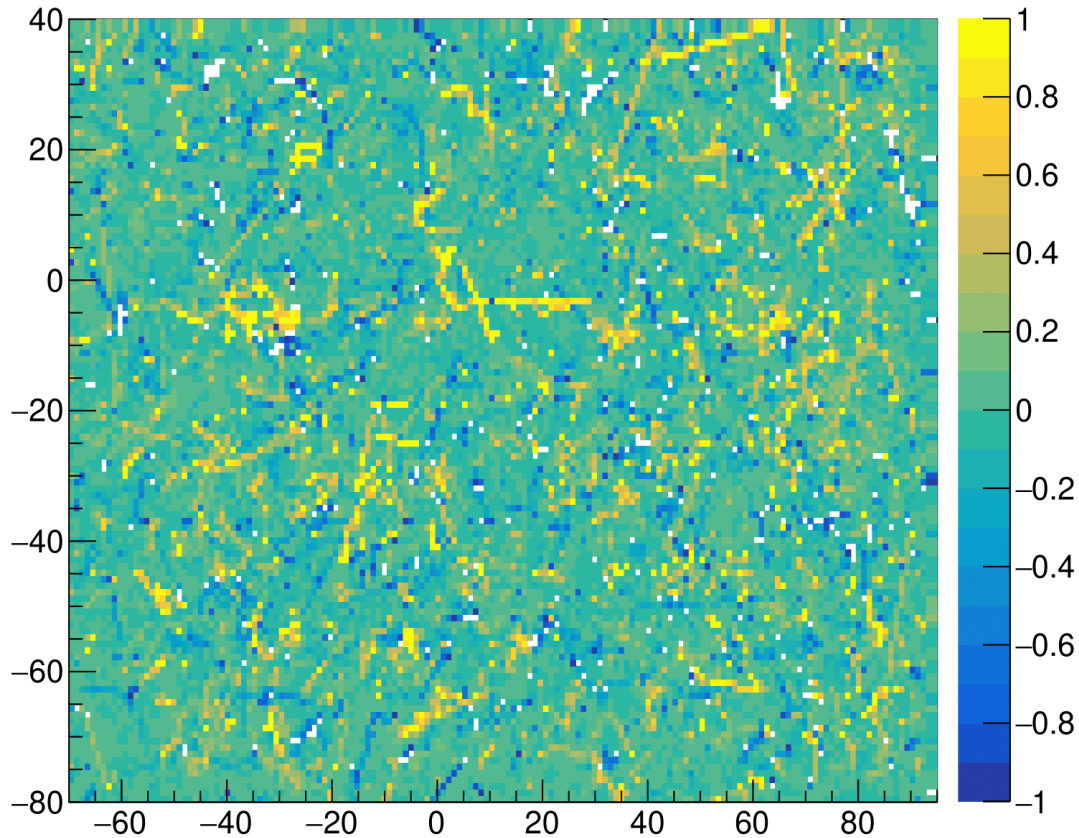
With bellow – without bellow and beam pipe



# Subtracted histograms – fluence (charged and neutral)

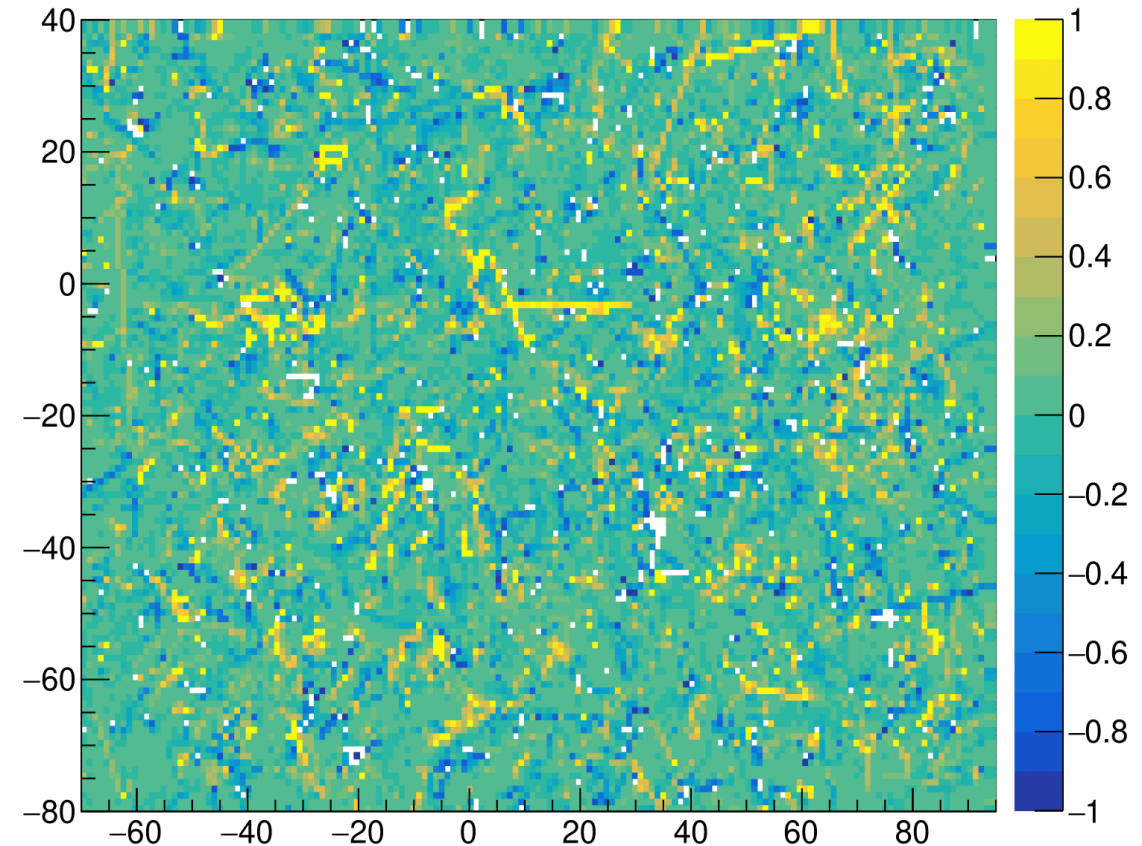
With bellow – without bellow

Fluence



With bellow – without bellow and beam pipe

Fluence

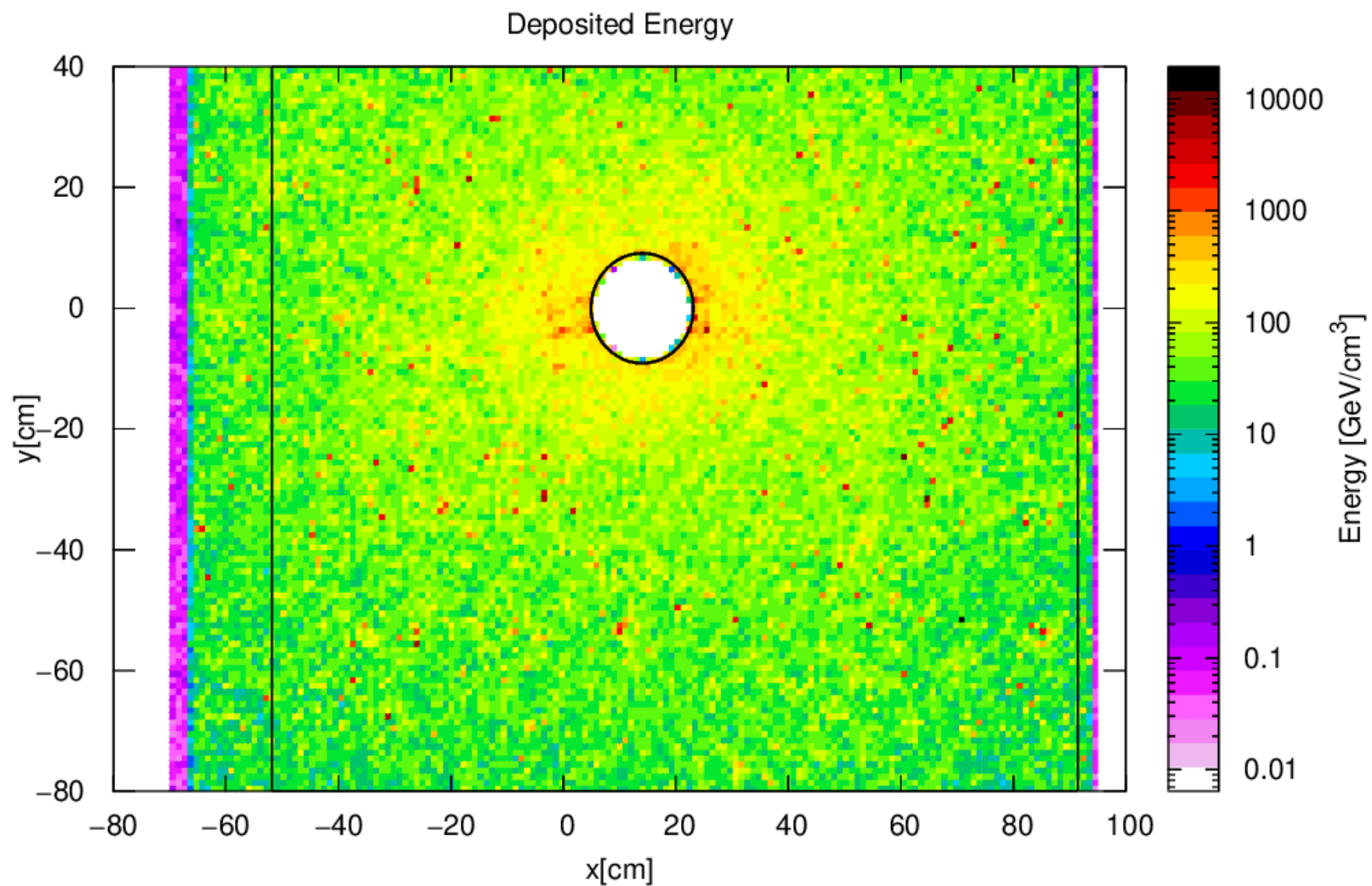


# Average values per bin

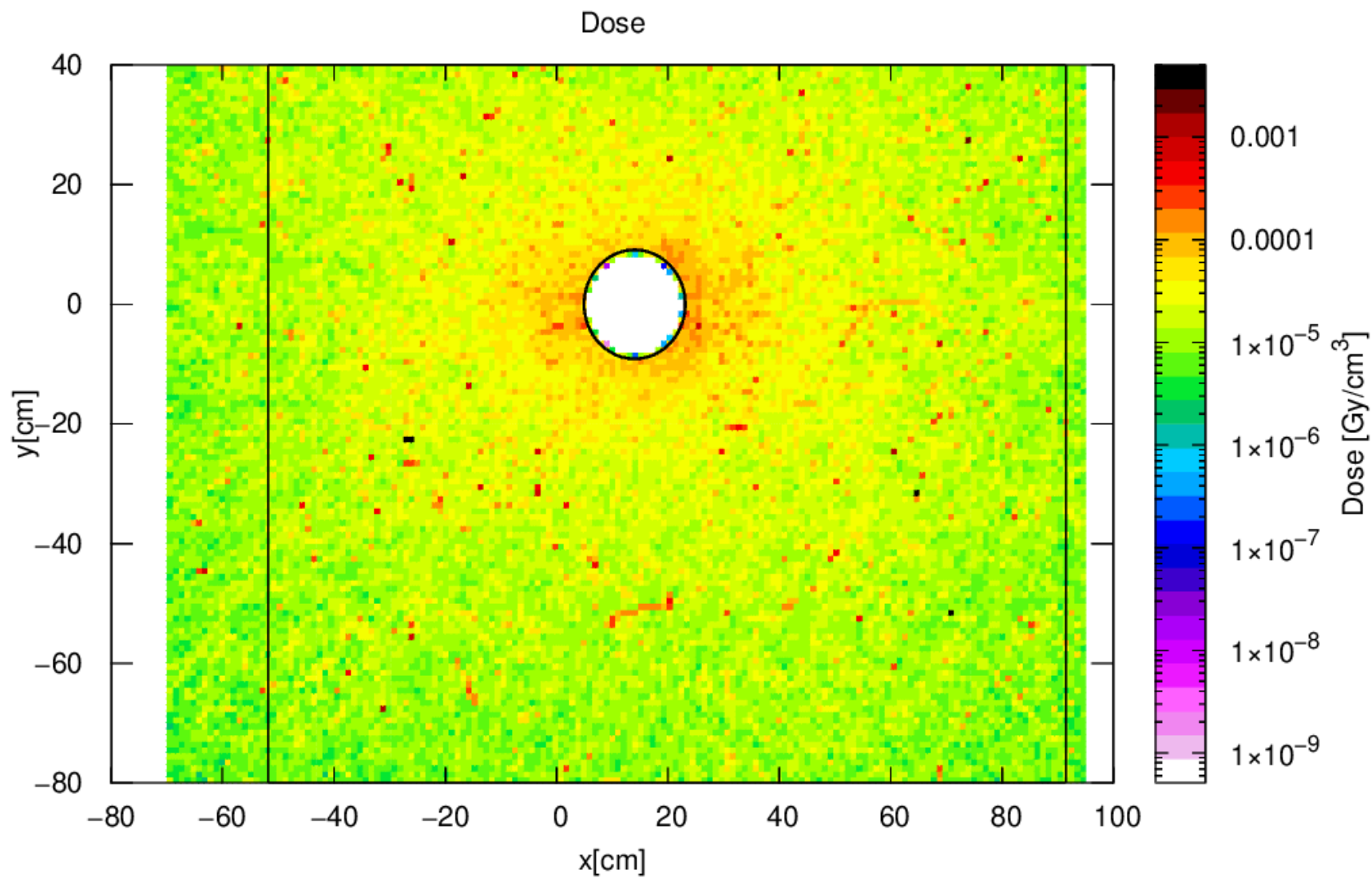
	Energy[Gev/cm <sup>3</sup> ]	Dose[Gy/cm <sup>3</sup> ]	Fluence[particles/cm <sup>2</sup> ]
With bellow	78	2.4e-5	0.173
Without bellow	81	2.5e-5	0.158
Without beam pipe	83	2.7e-5	0.169



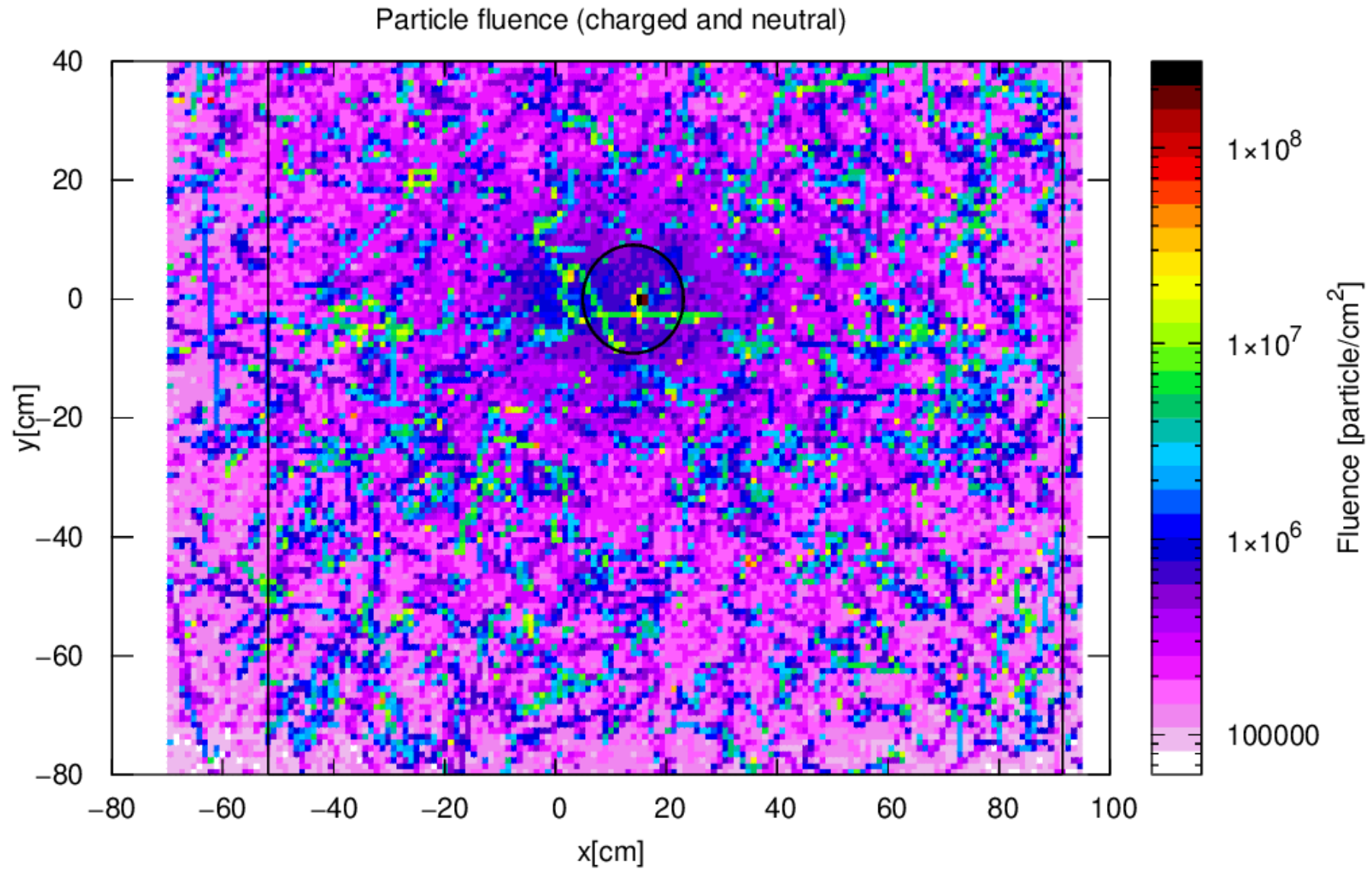
# With bellow



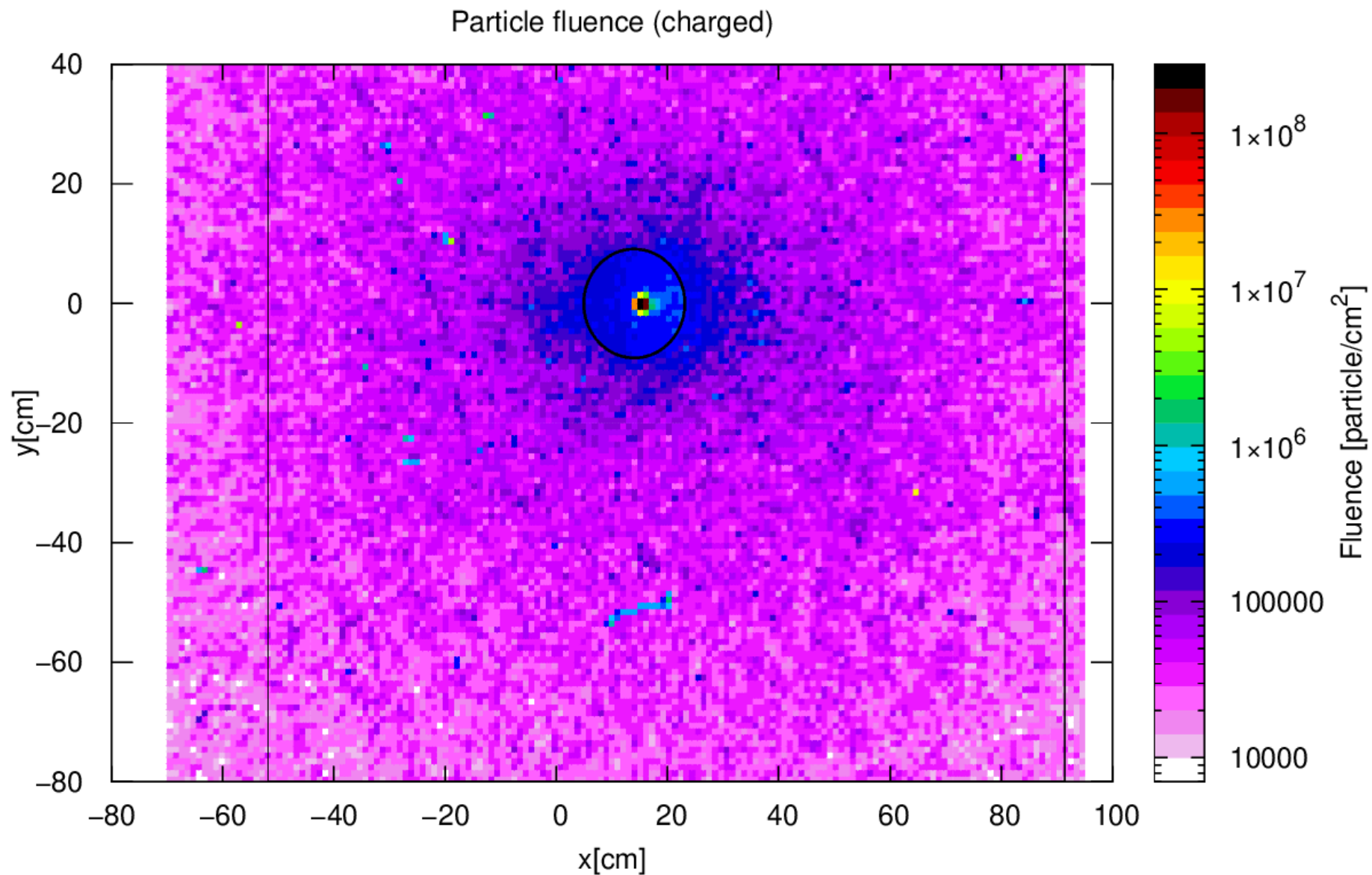
# With bellow



# With bellow

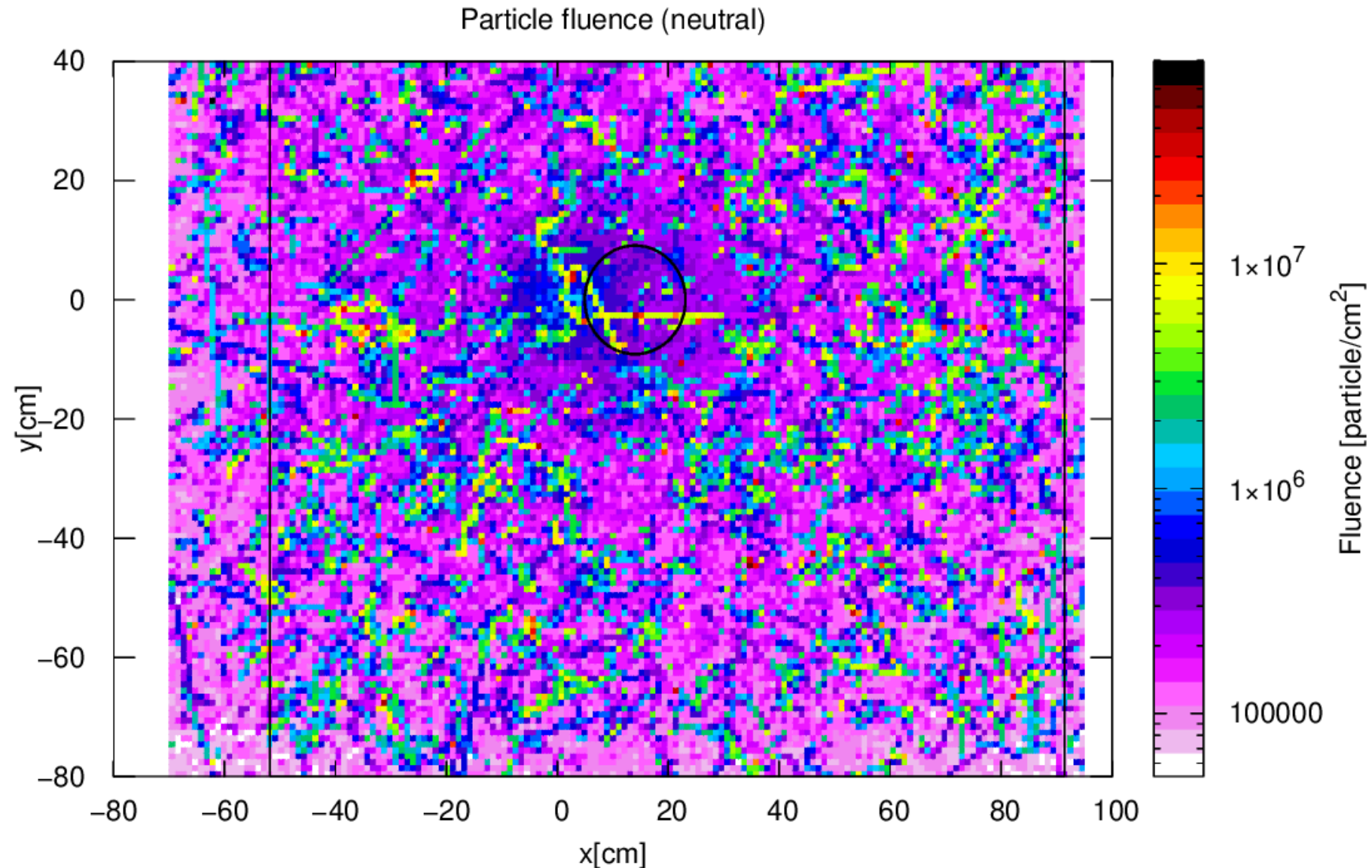


# With bellow

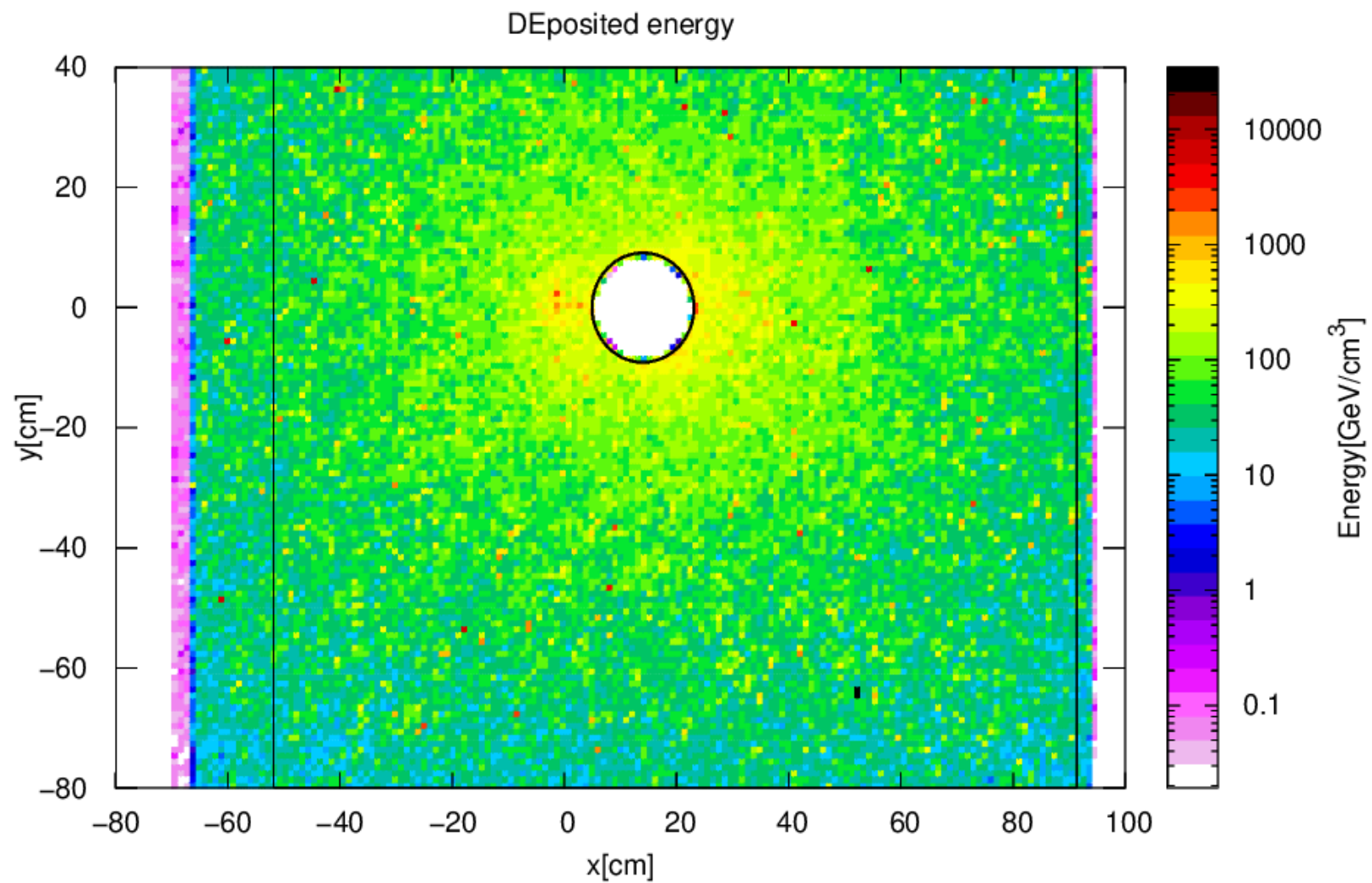




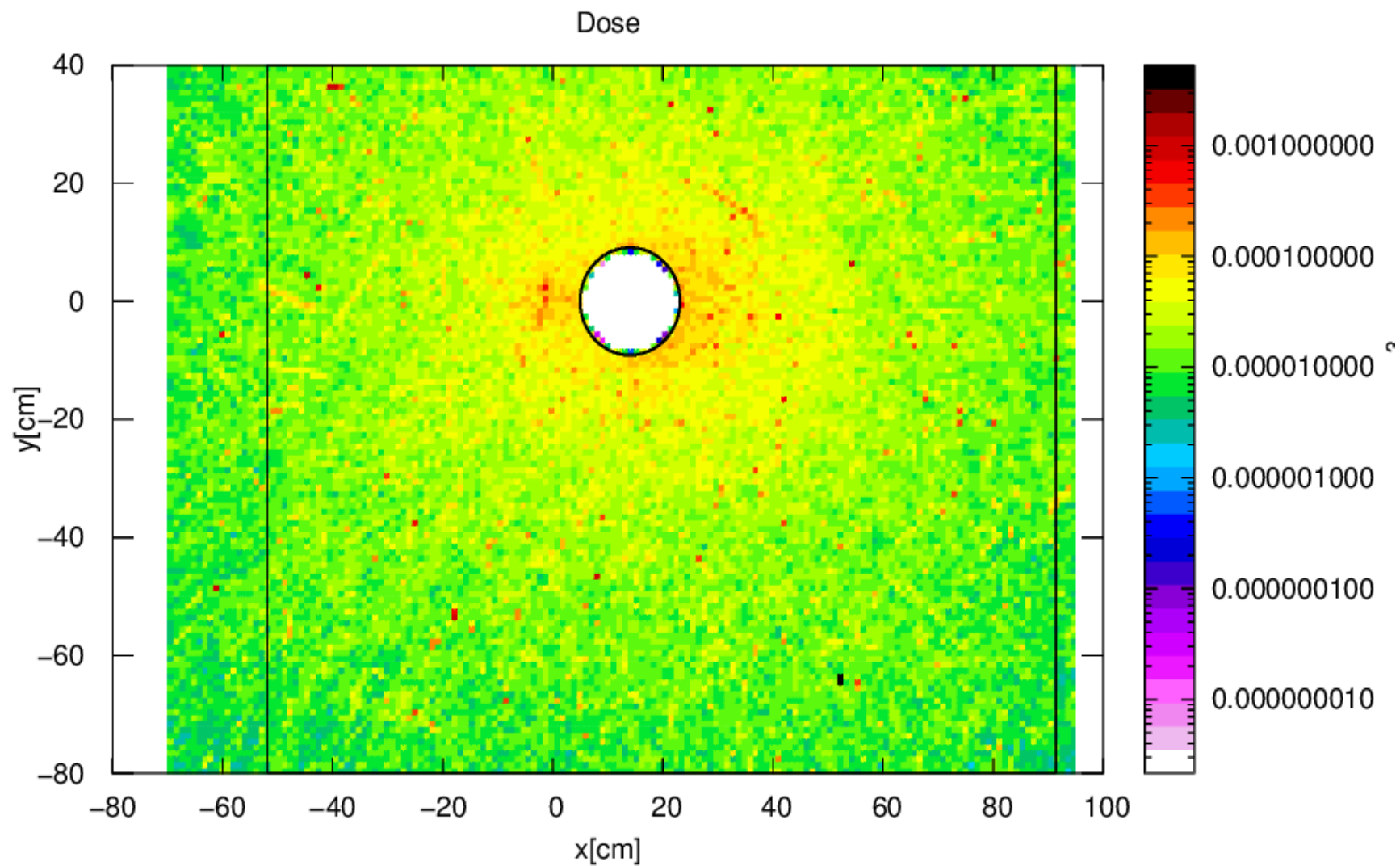
# With bellow



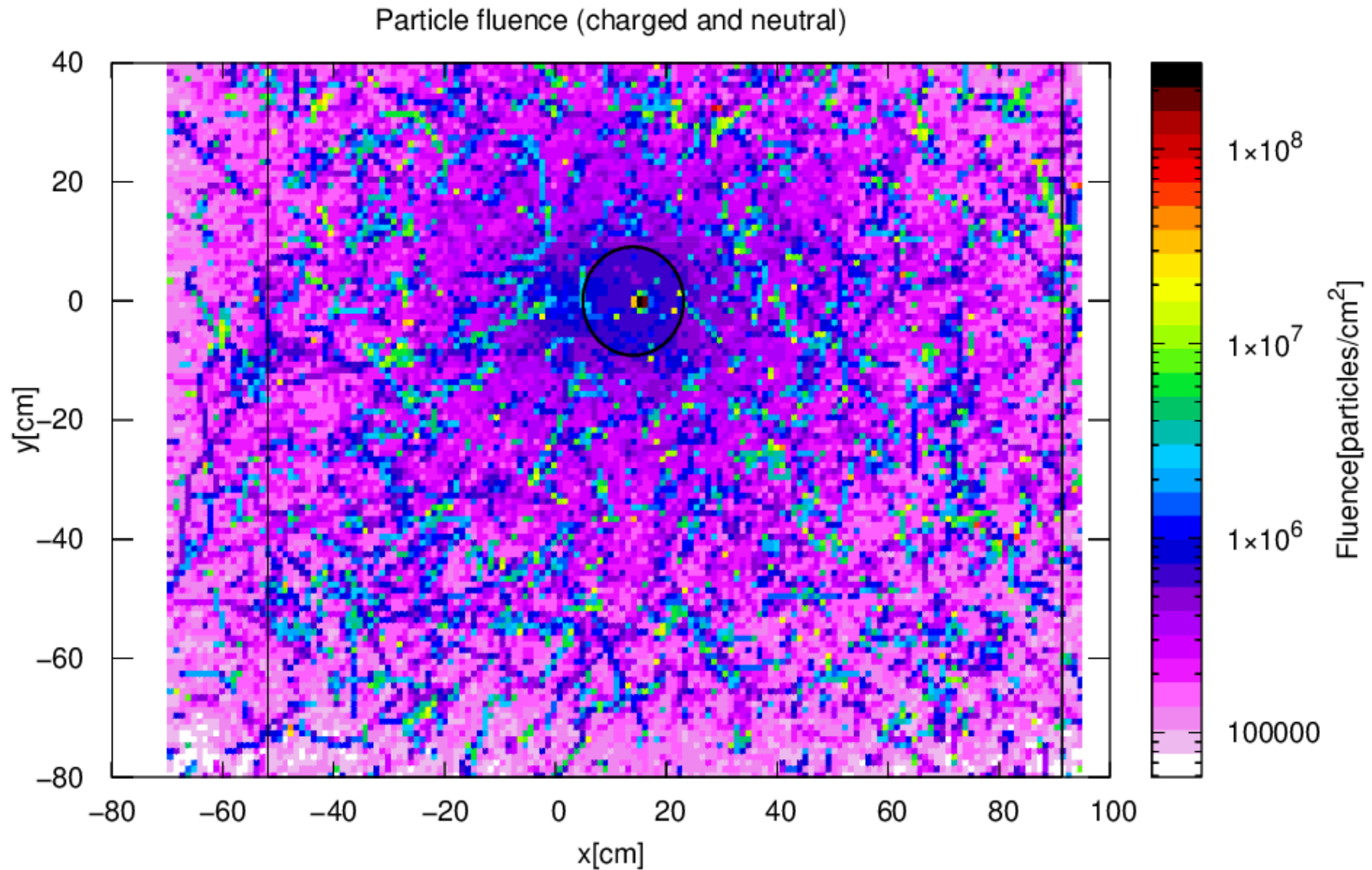
# Without bellow



# Without bellow

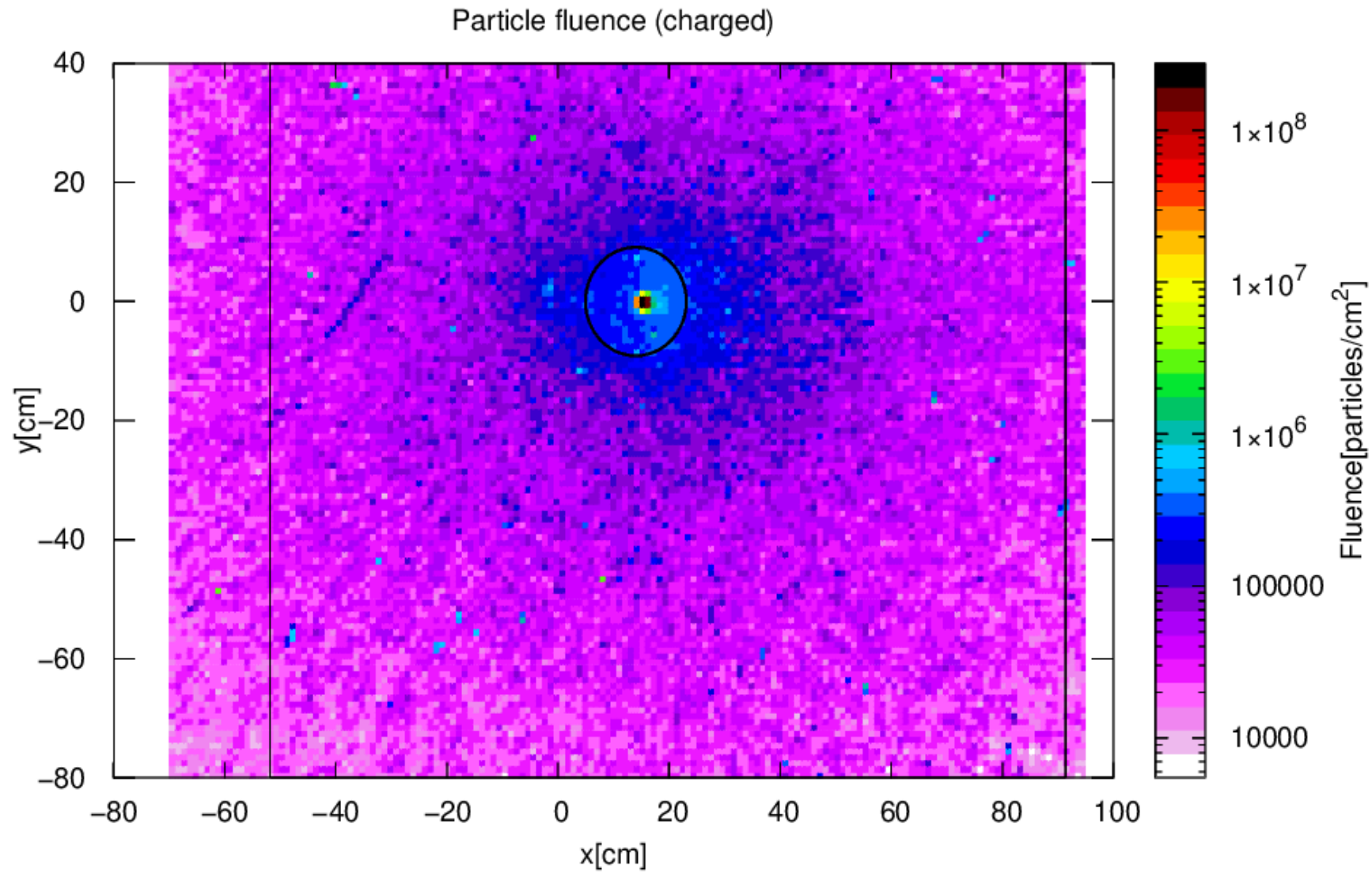


# Without bellow

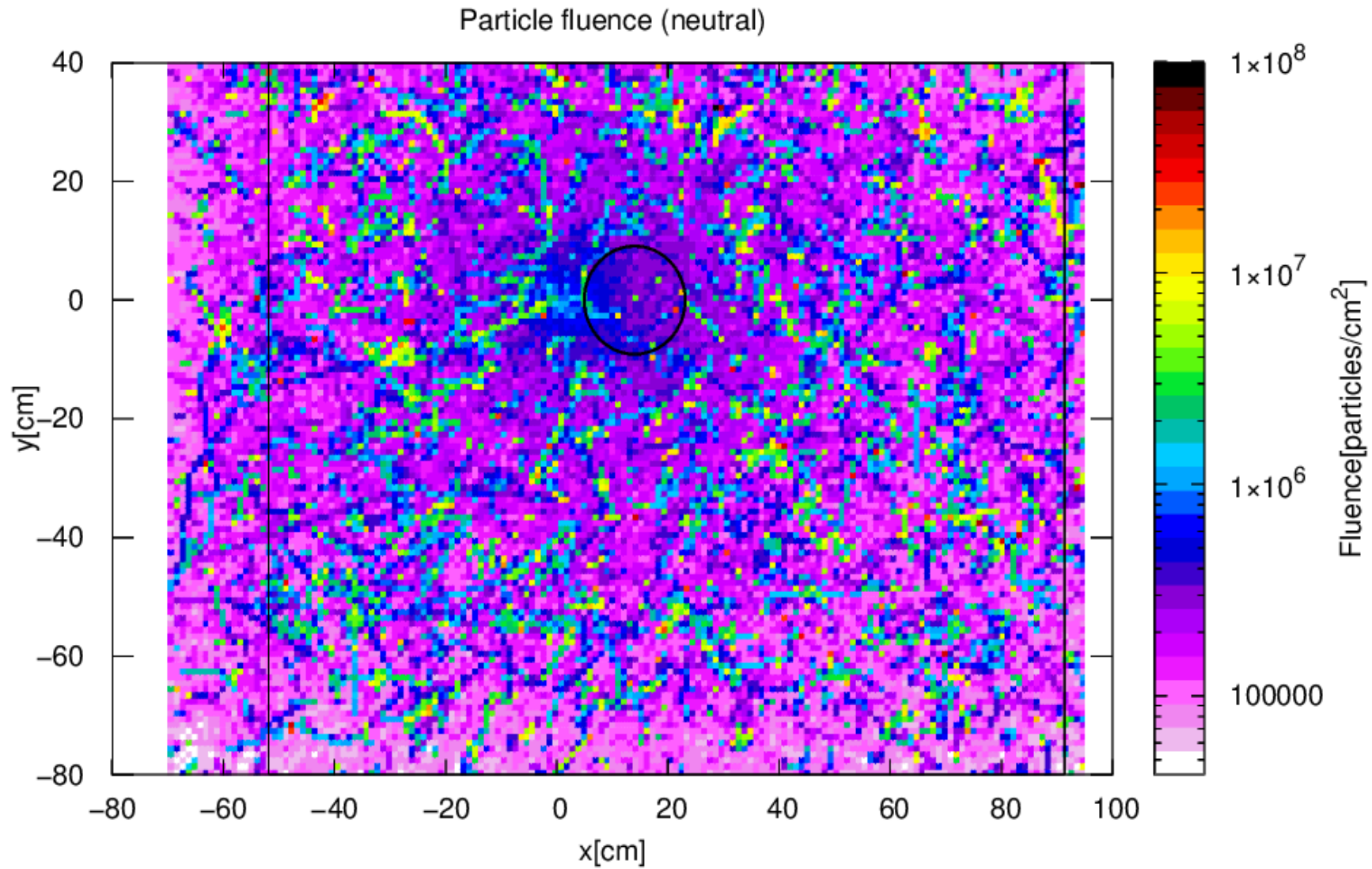




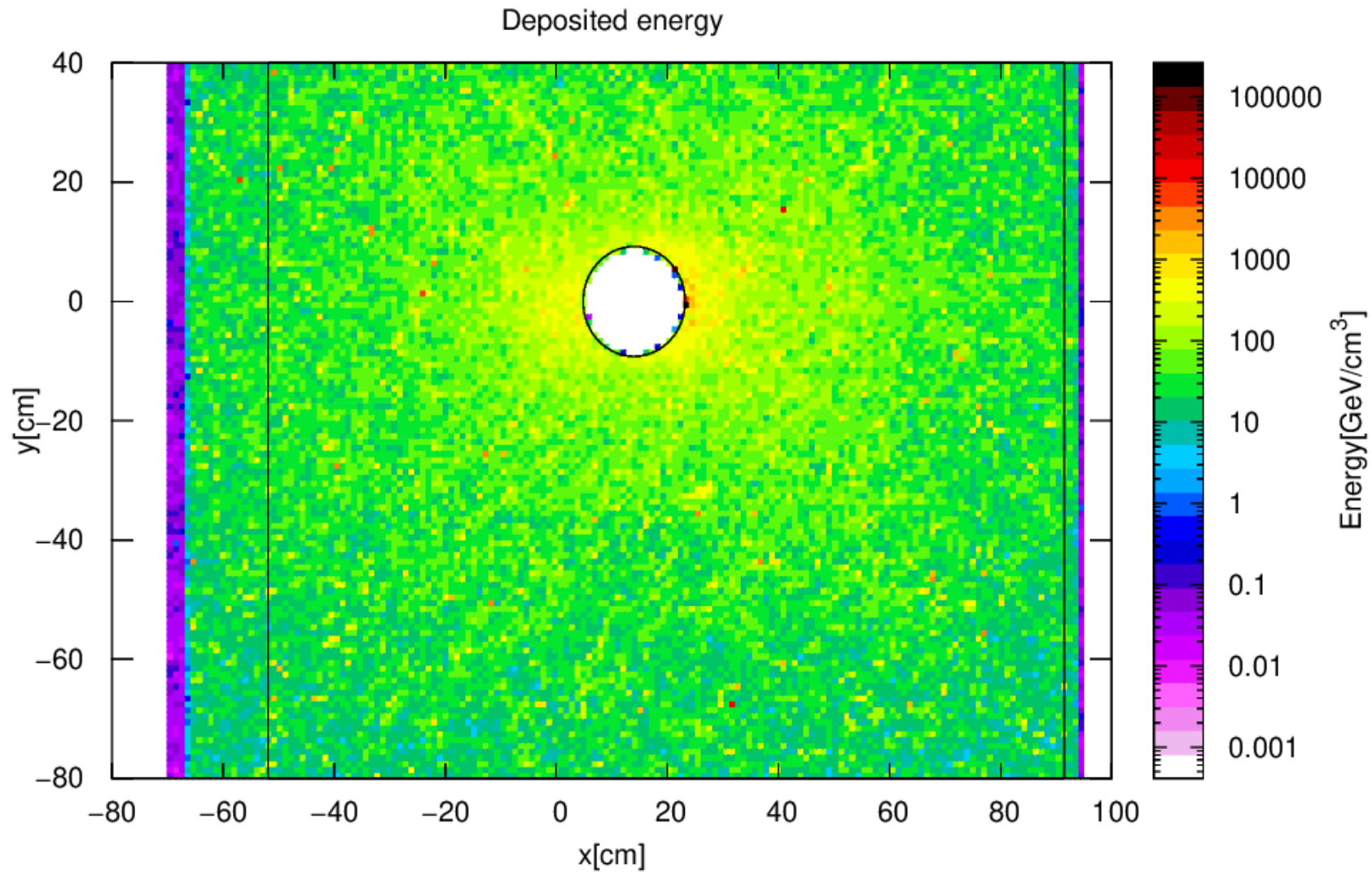
# Without bellow



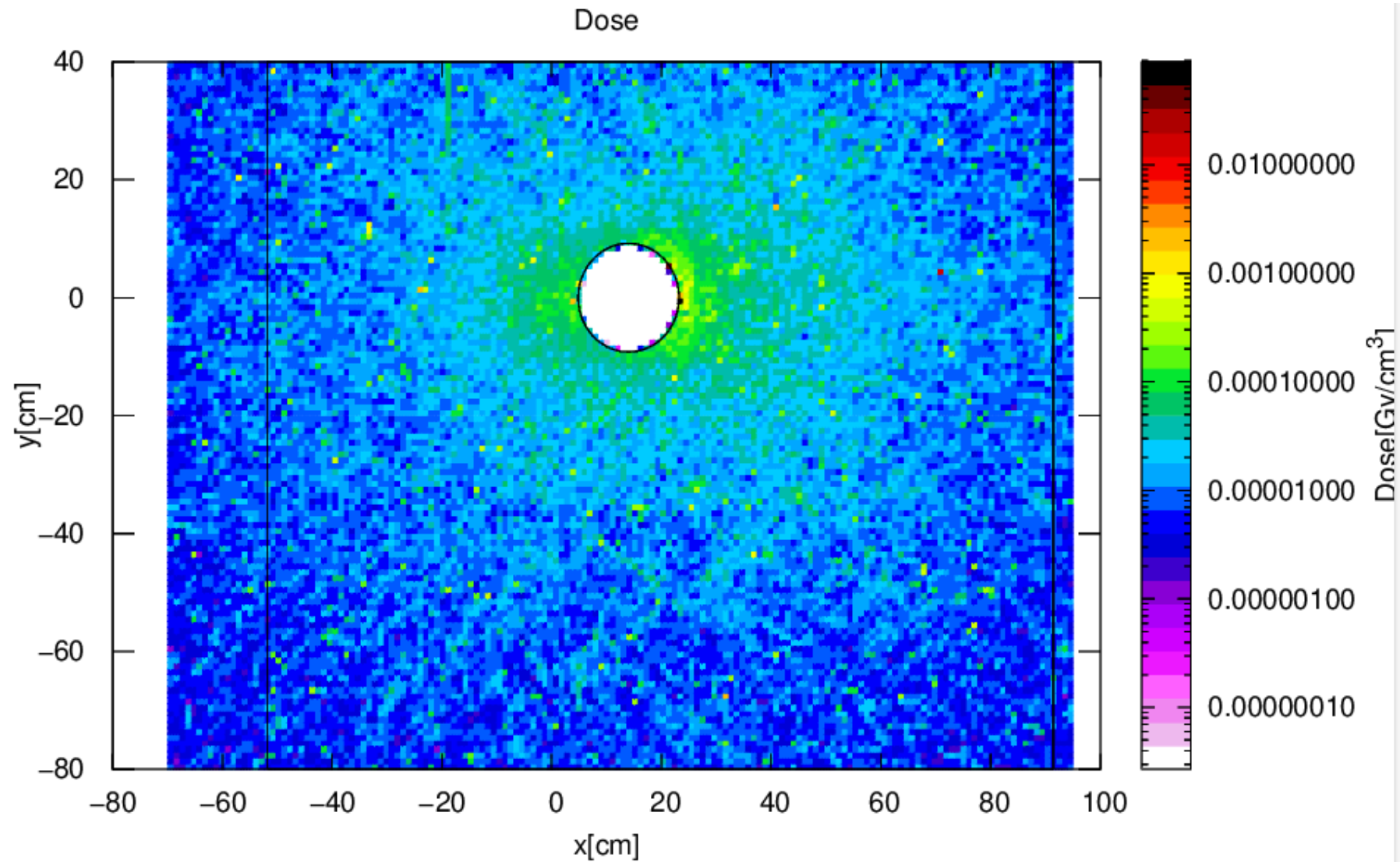
# Without bellow



# Without beam pipe

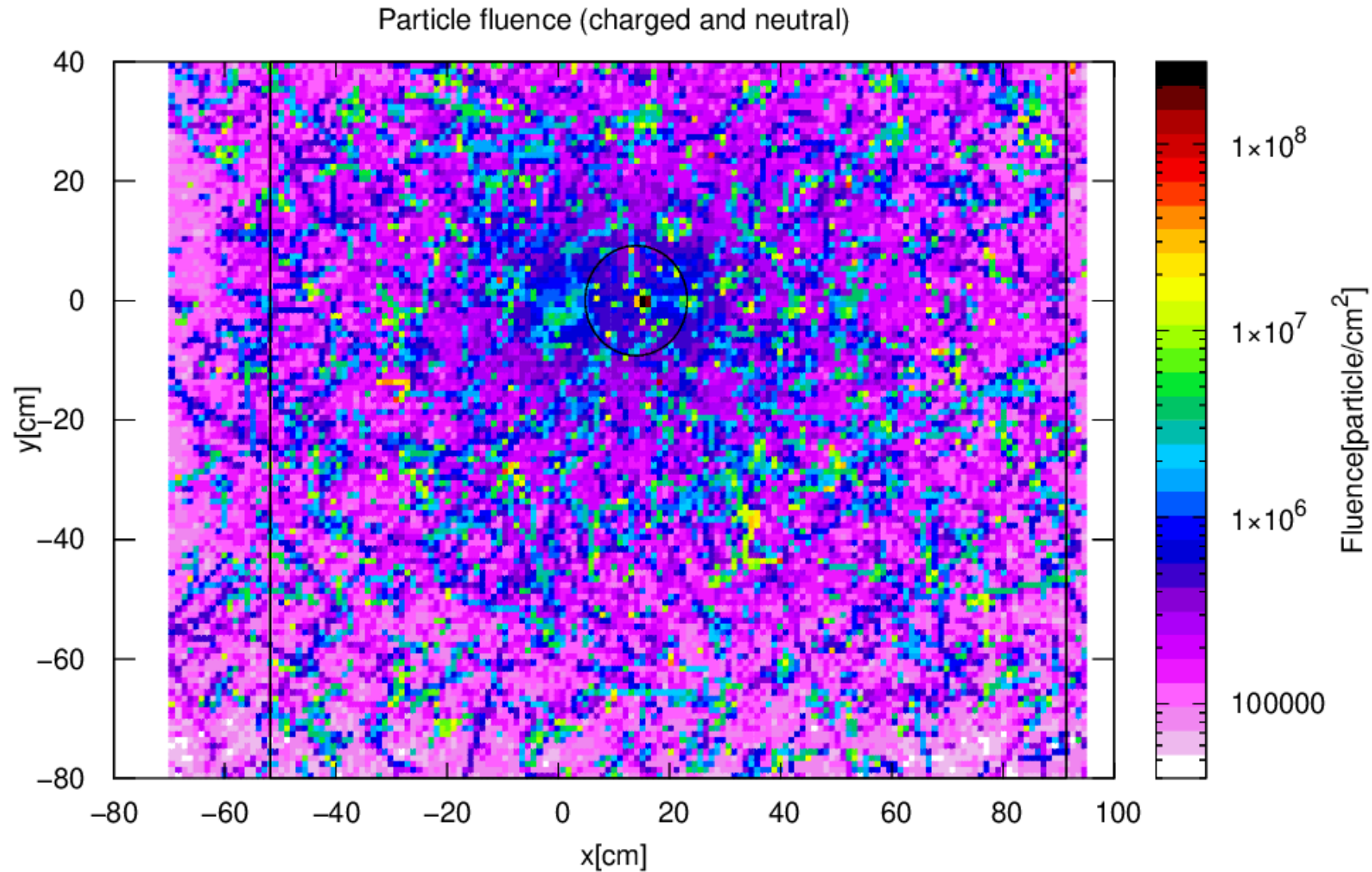


# Without beam pipe

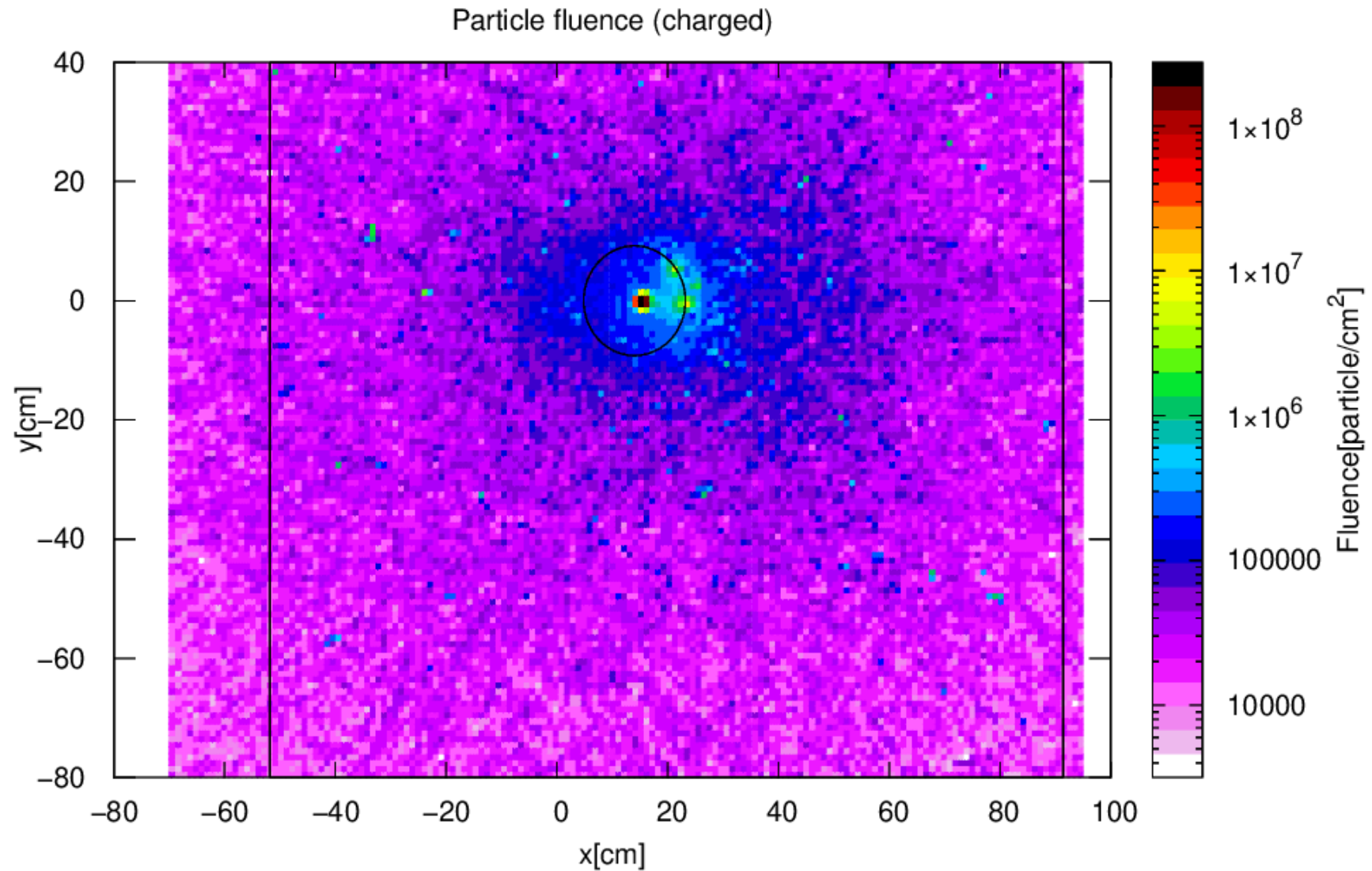




# Without beam pipe



# Without beam pipe



# Without beam pipe

