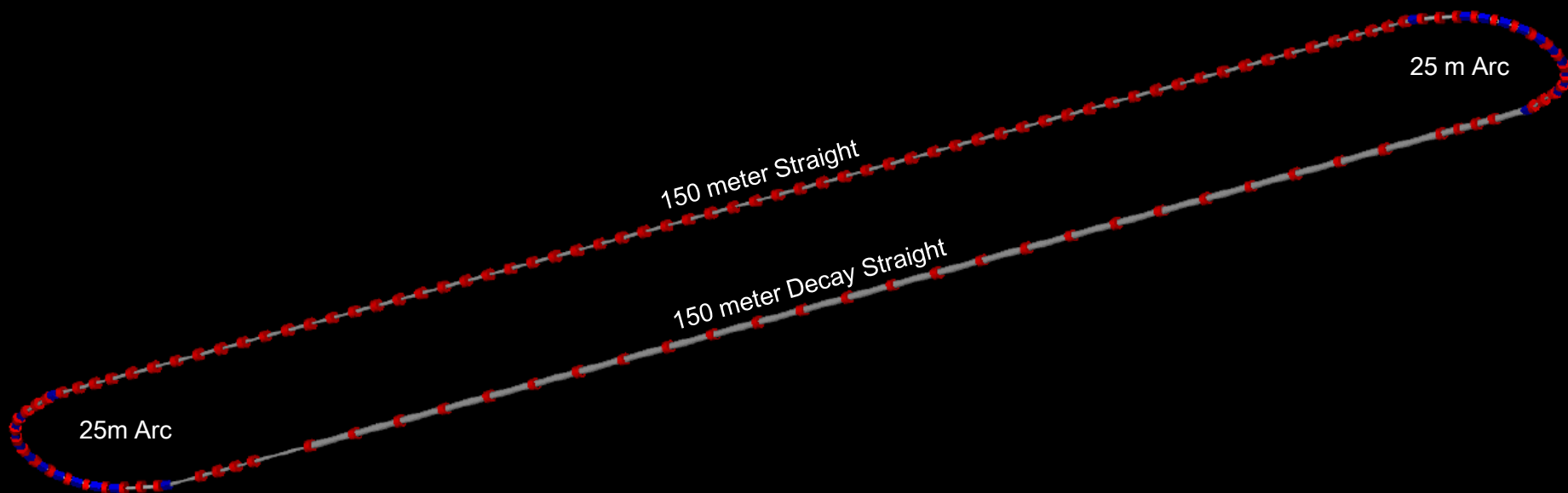


# New Options for a Decay Ring Optics

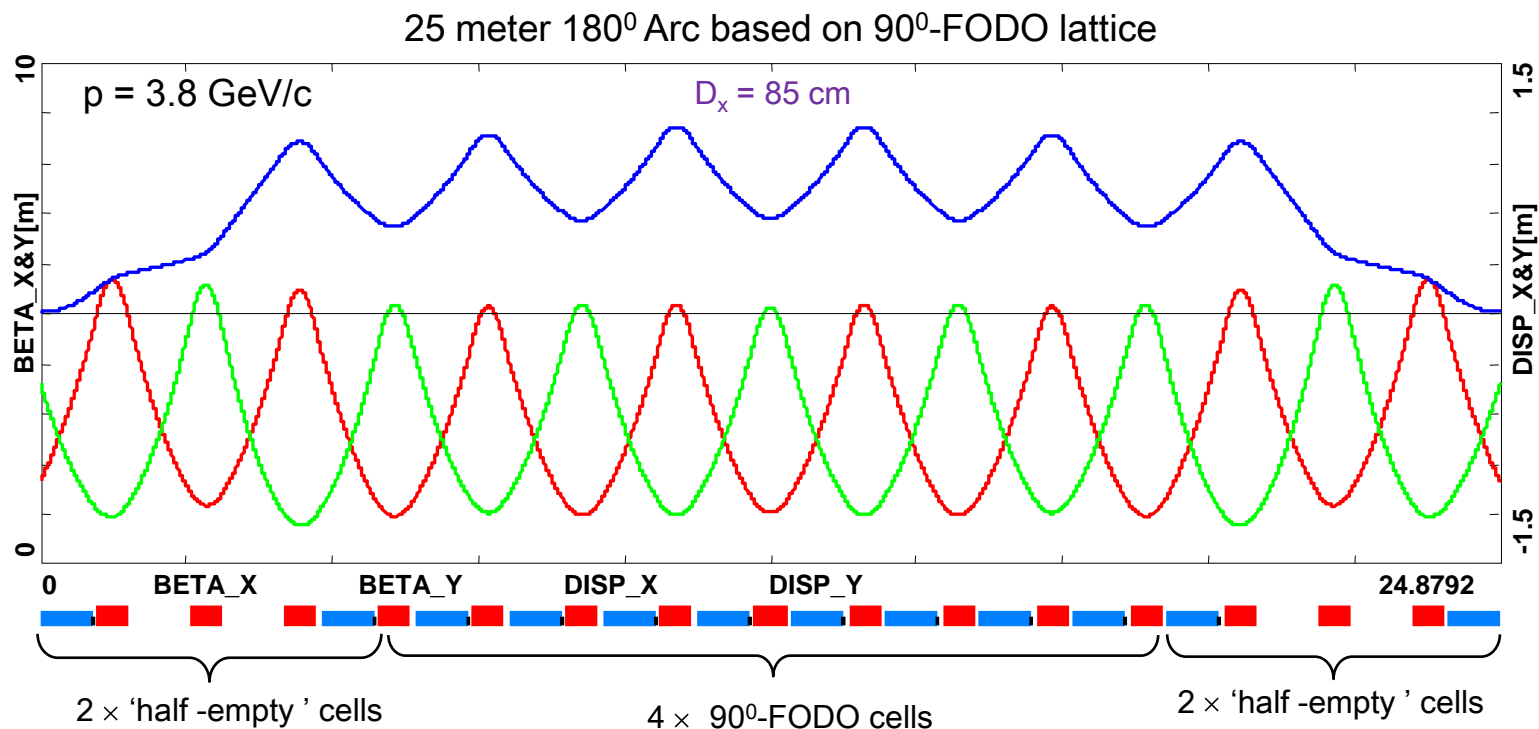
Alex Bogacz

# 5/3.8 GeV $\pi/\mu$ – Capture/Decay Ring

Muons recirculated at central momentum:  $p = 3.8 \text{ GeV}/c$



# Arc Optics – ‘missing dipoles’



Aperture radius:  $r = 15 \text{ cm}$

12 × Dipoles:

field: 3.9 Tesla

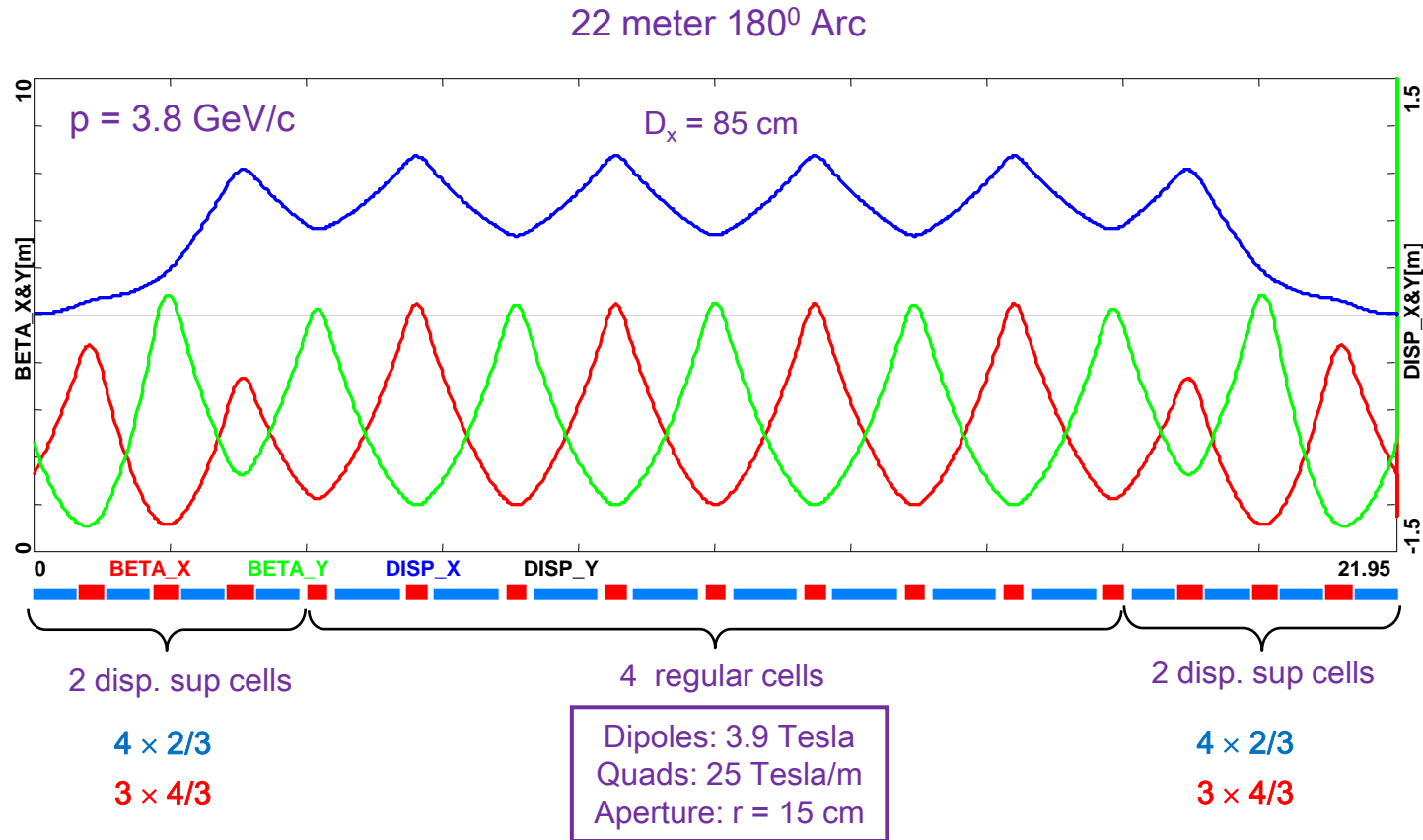
length: 85 cm

15 × Quads:

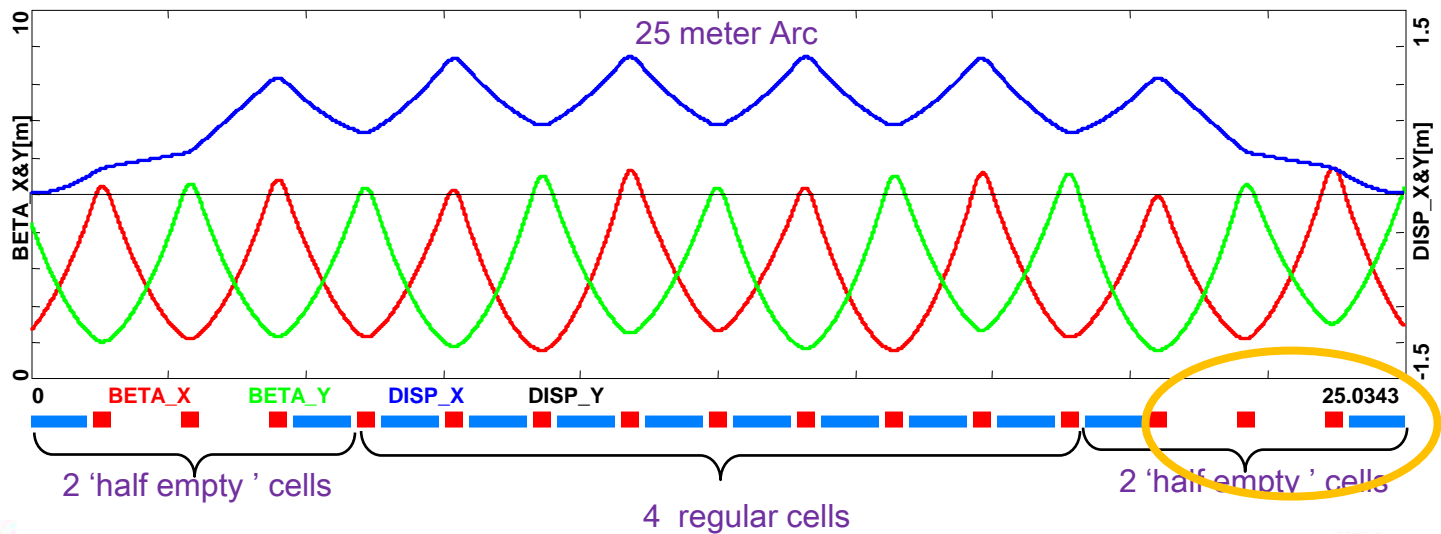
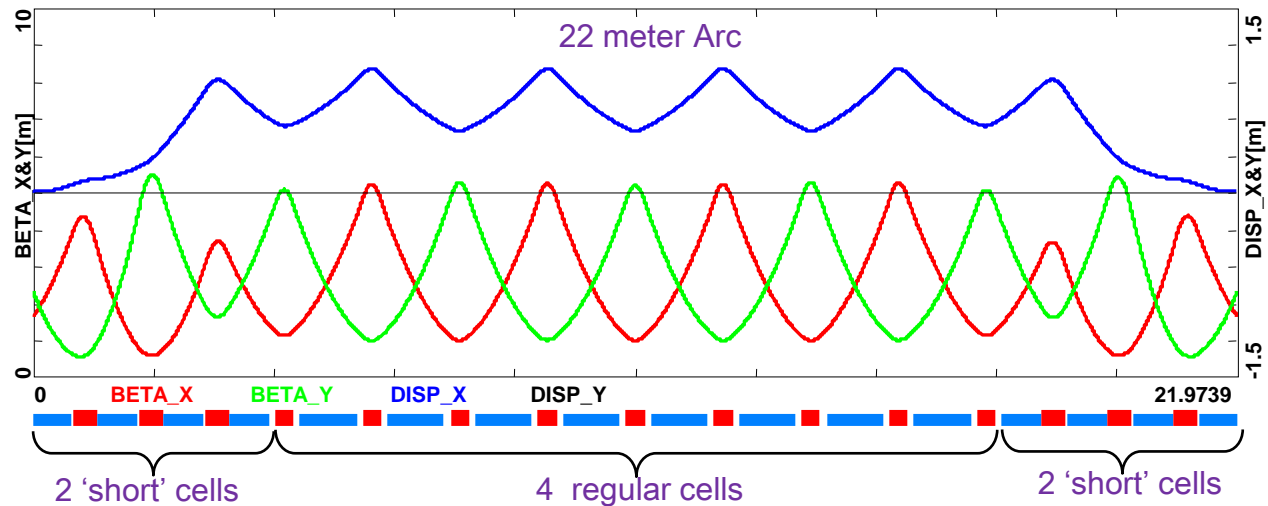
gradient : 25 Tesla/m (3.8 Tesla at the pole)

length: 50 cm

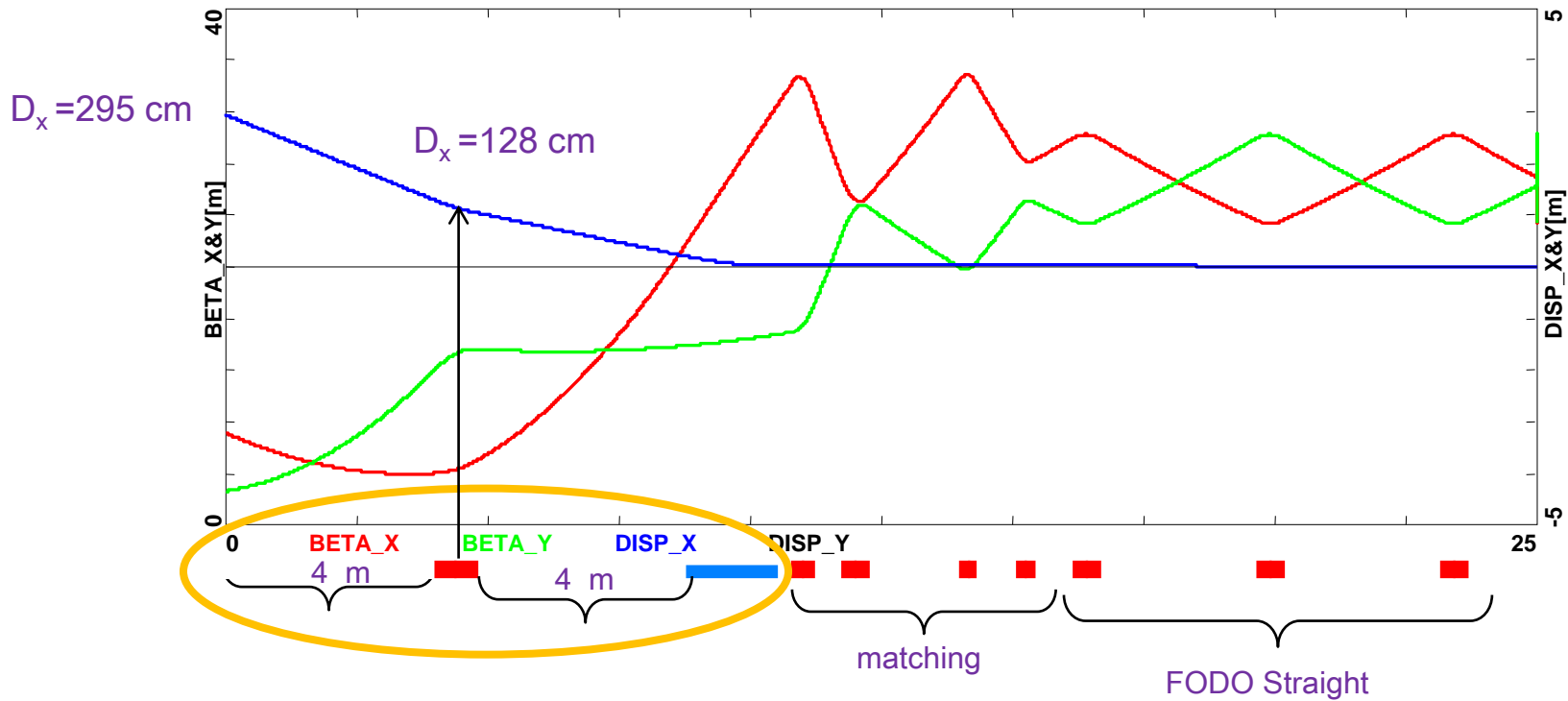
# 'Compact' Arc Optics a la Al Garren



# Arc Optics Options

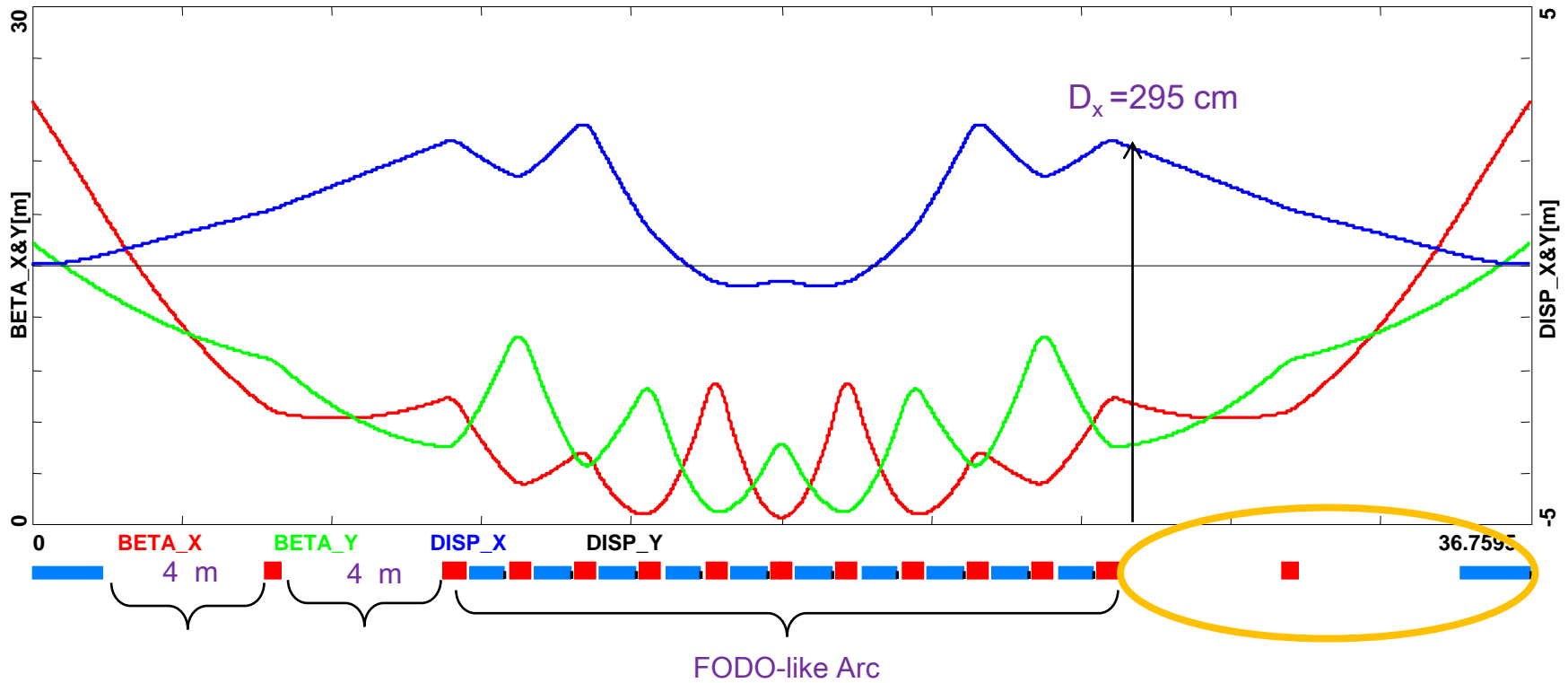


# Ao's Injection Optics

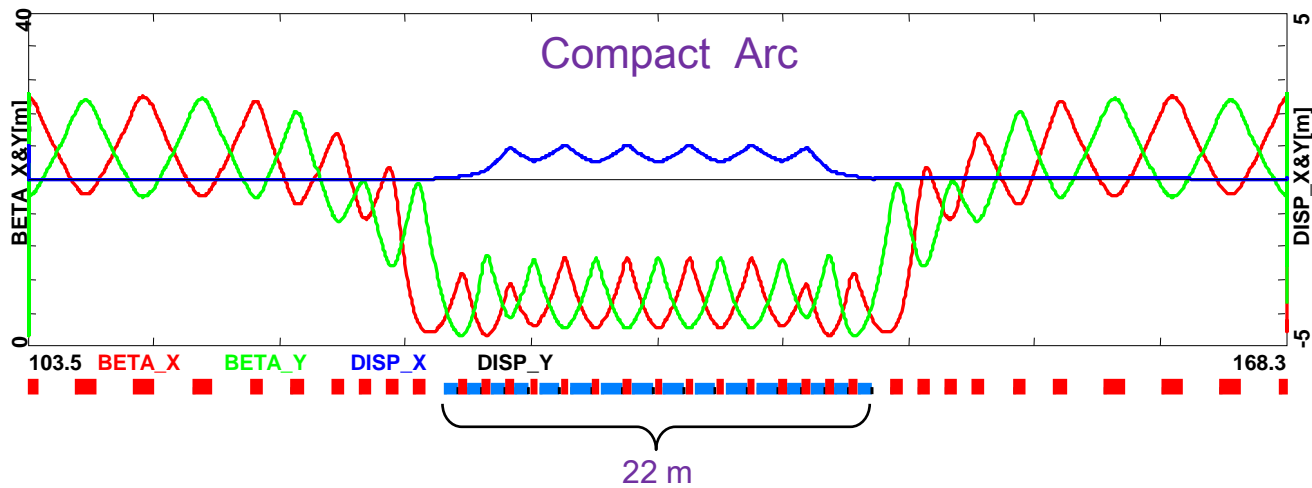
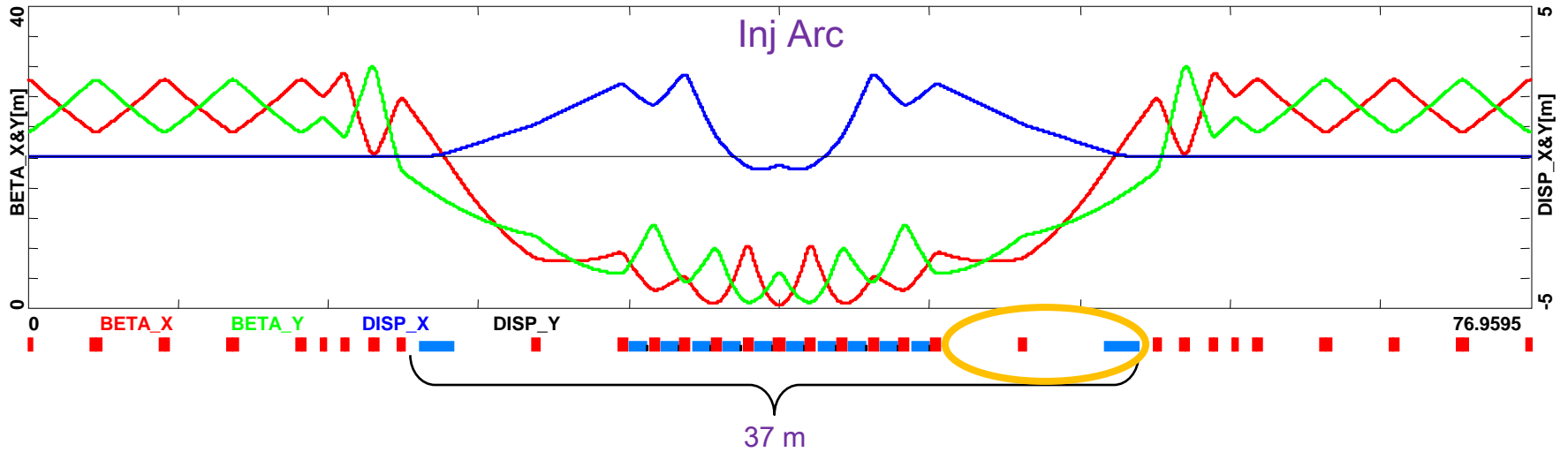


Ao Liu

# Injection Arc Optics



# Ring Optics – Arc Options





# Decay Ring with non parallel straights?

