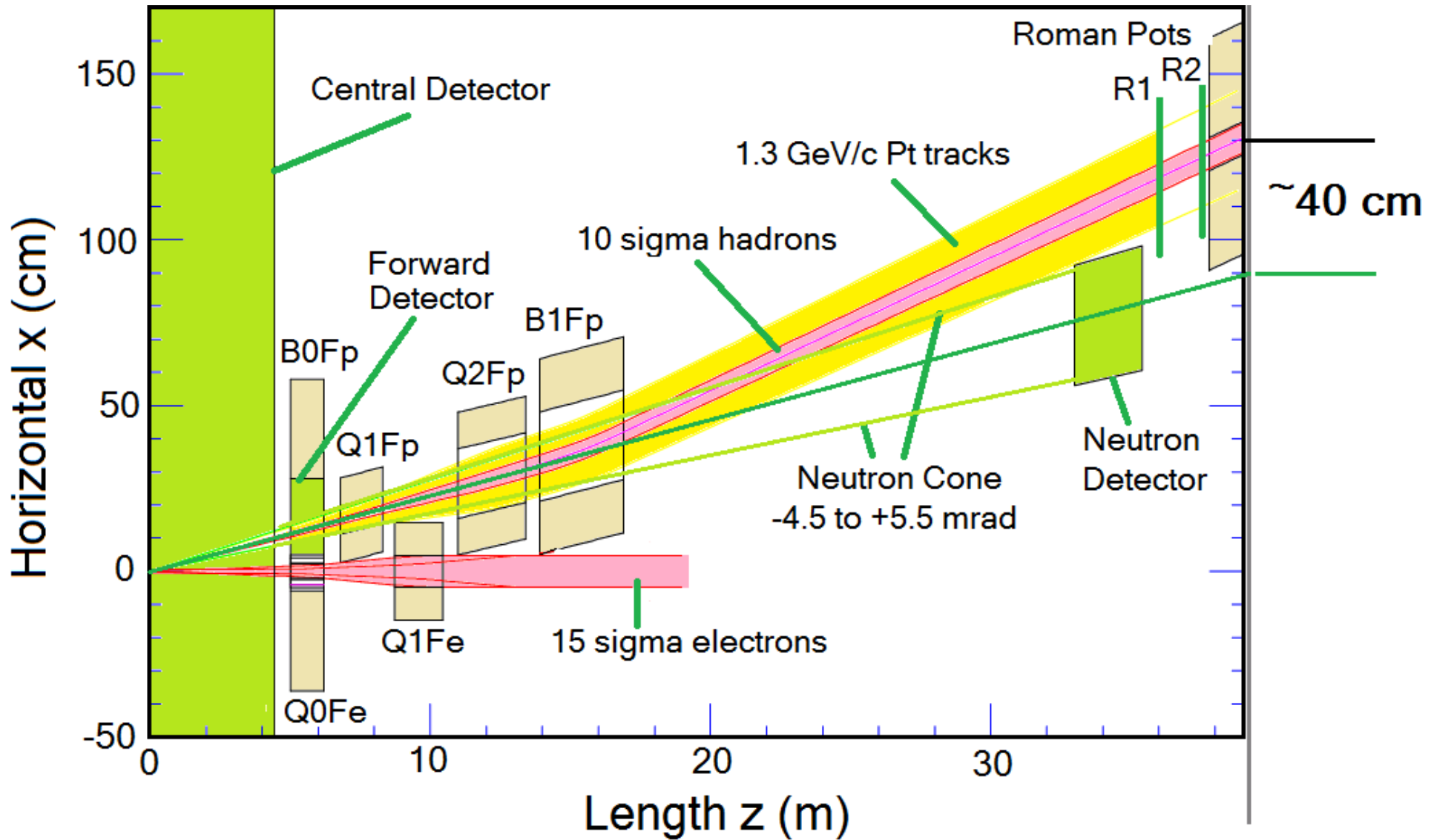
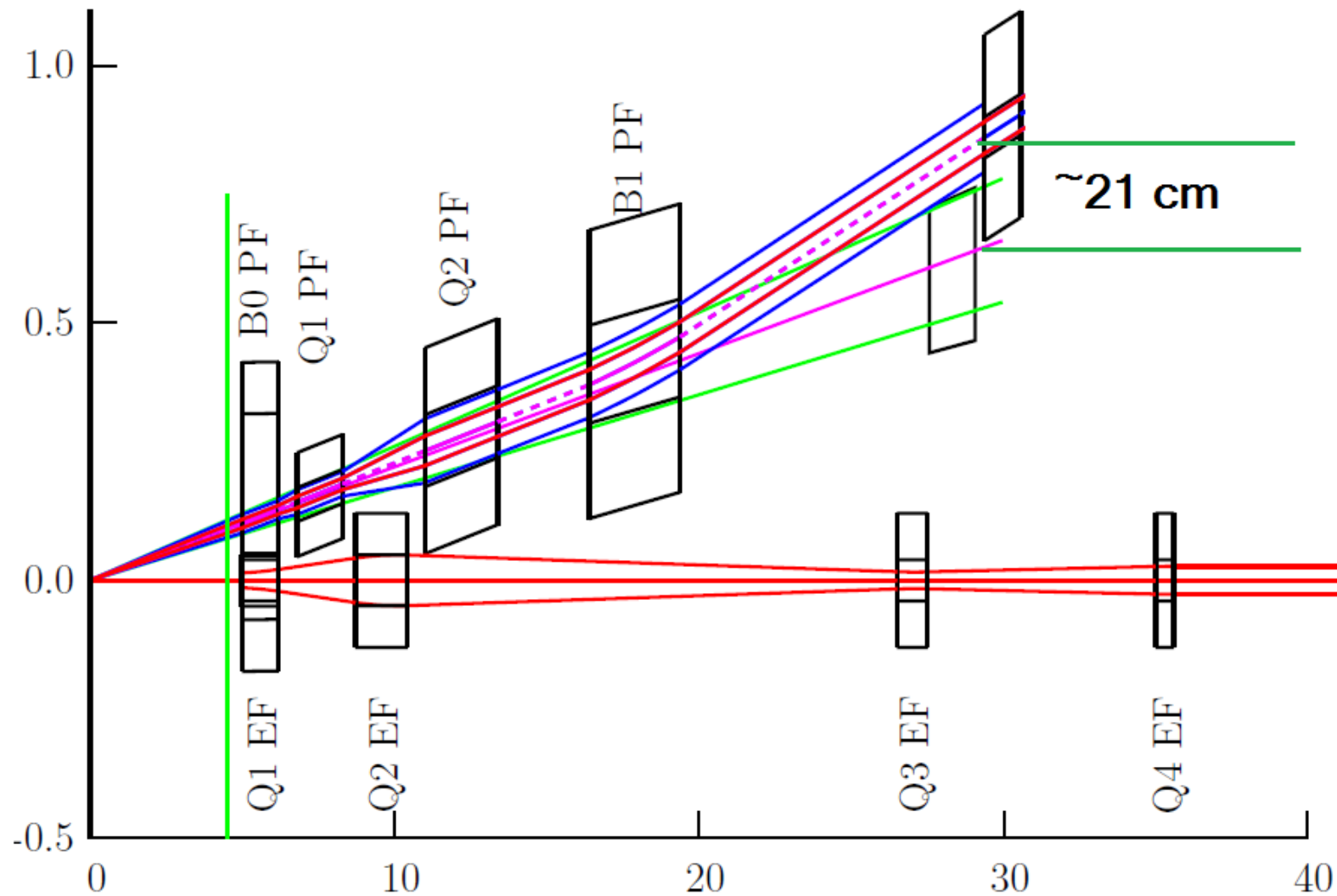


# My unmatched forward region



# Using Guillaume's matched version



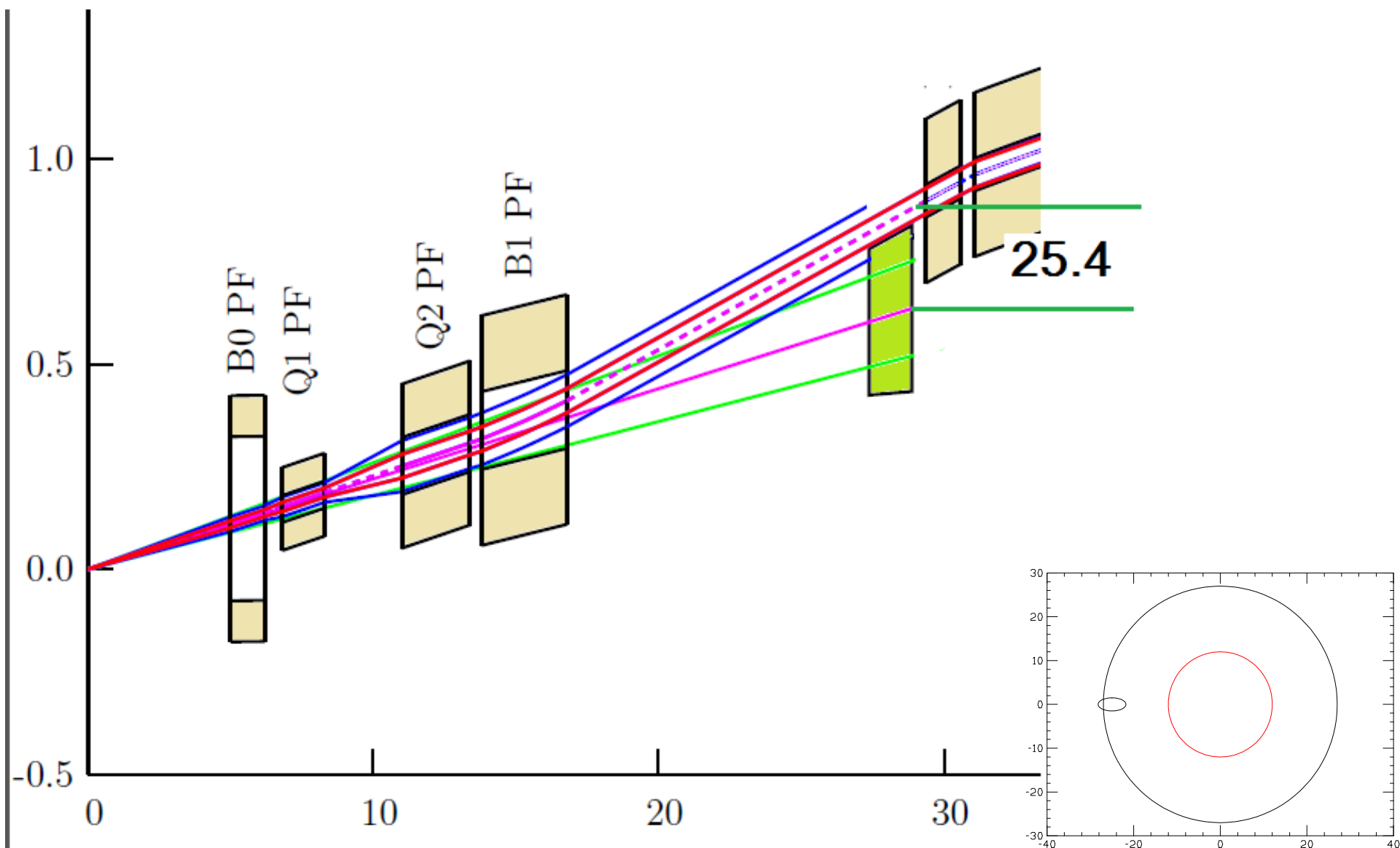
## Why?

- Distance to next magnet 30 instead of 40 m
- Magnet B1 moved 3 m down-stream

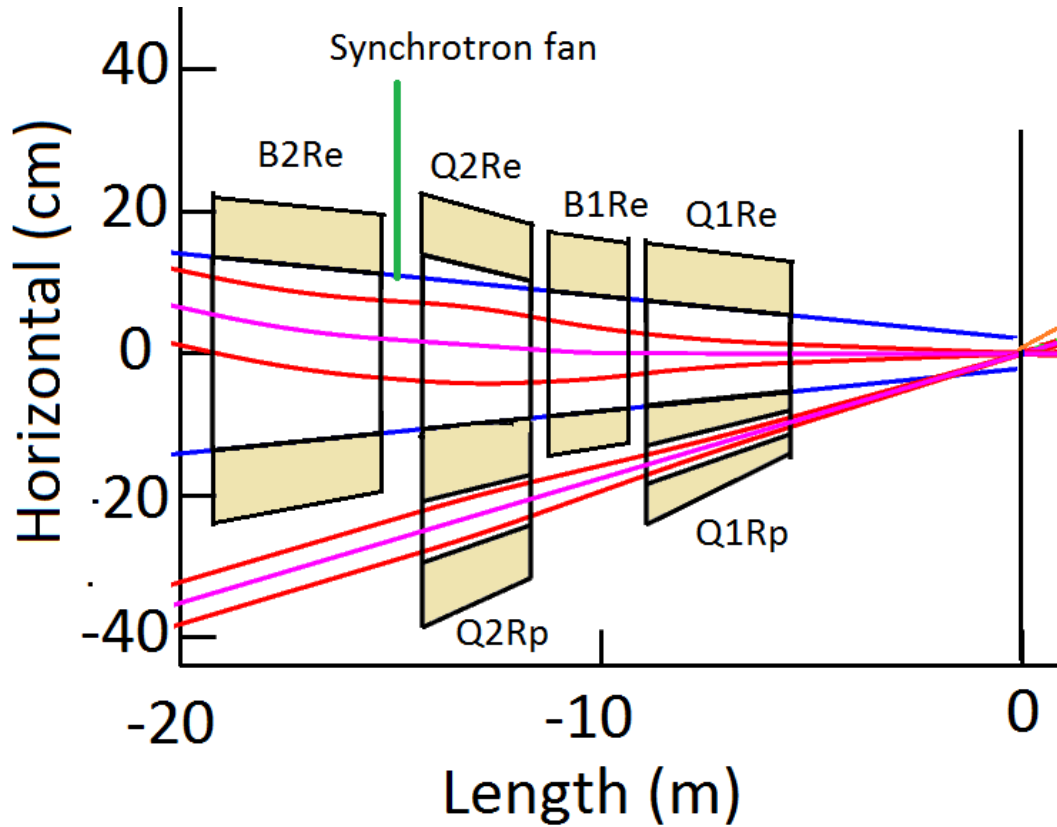
## Fixes:

- Move B1 back
- Place Detector after Roman pots (Alexander et al)  
ZDC can extend to beam its self

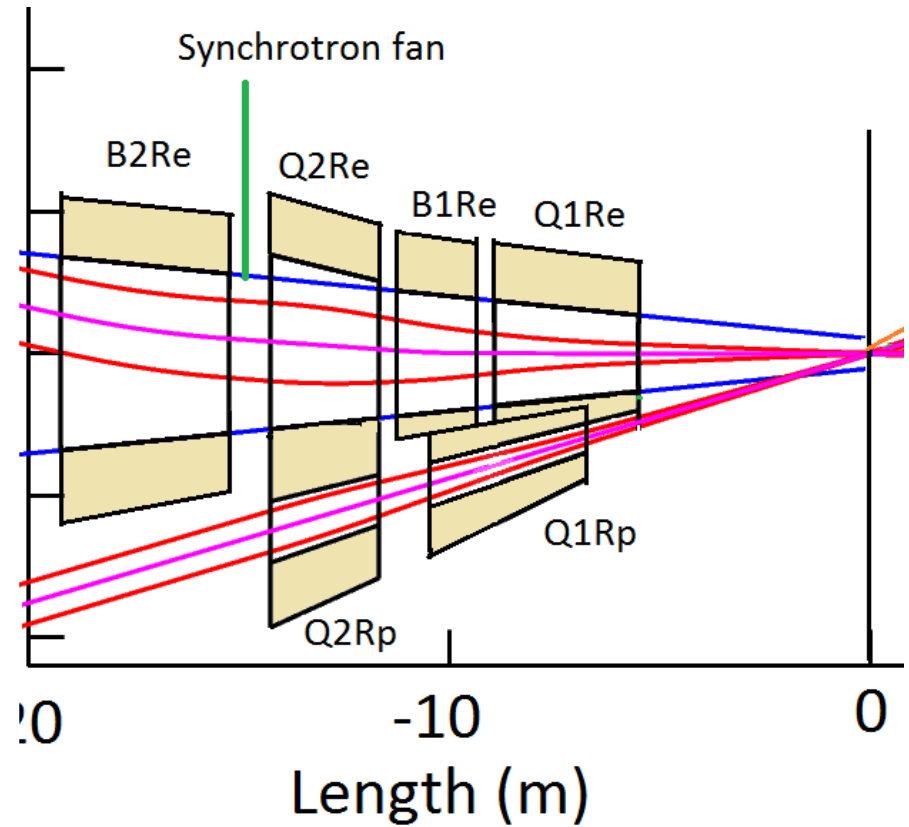
# With fixes



# Rear detail problem



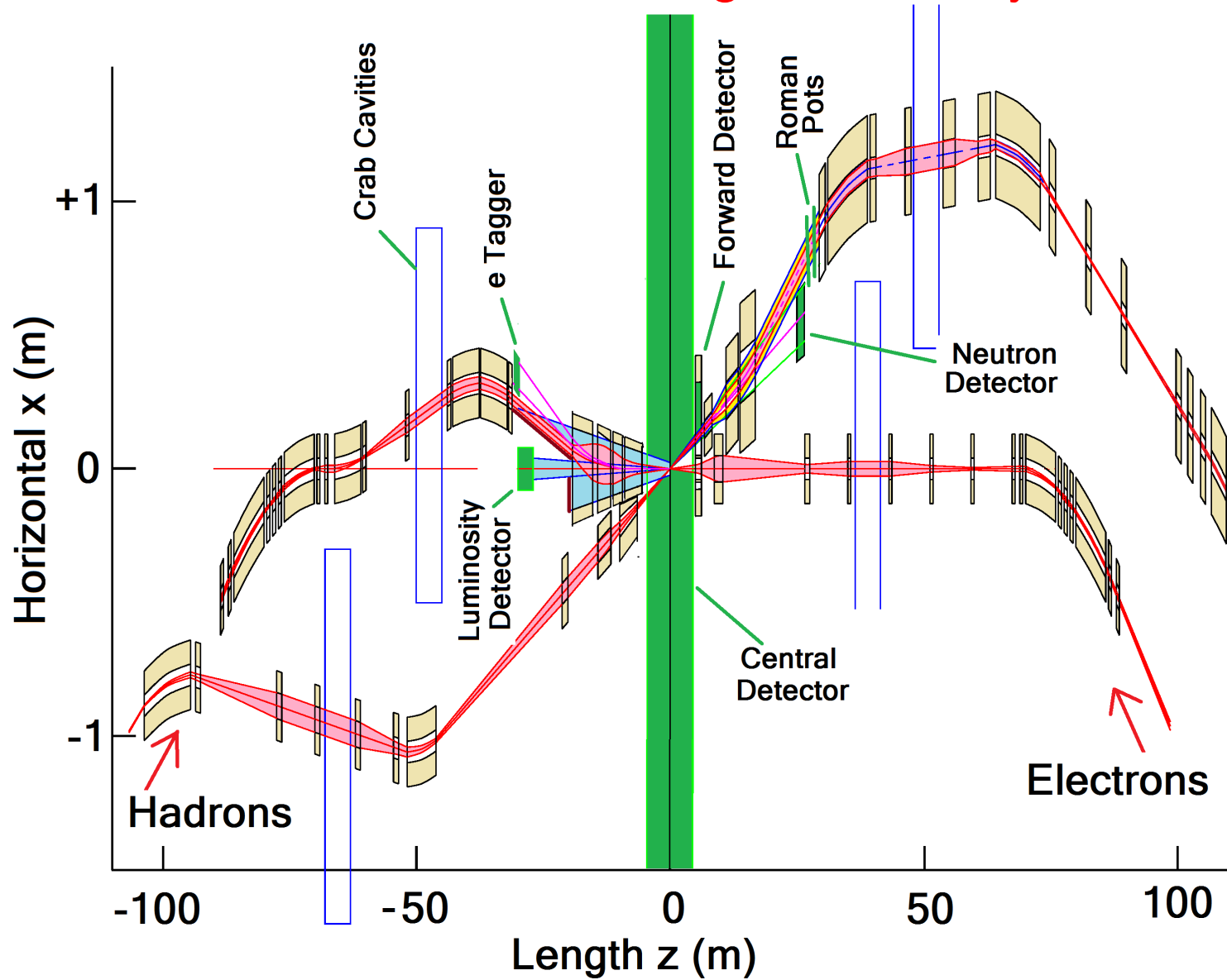
**Original**



**Guillaume's**

Holger did not like this

Apparent interference, but needs checking, could be my error



## Increased crossing angle and/or B1 field

- Increased crossing angle (e.g. 22→25 mrad) would greatly ease near in focus elements on both sides
- Increased B1 would recover beam to neutron cone space

BUT

- We are probably already close to rear wall
- Crossing angle/ B1 field probably need tilting electrons
- But this could reduce, not increase, upstream e bending