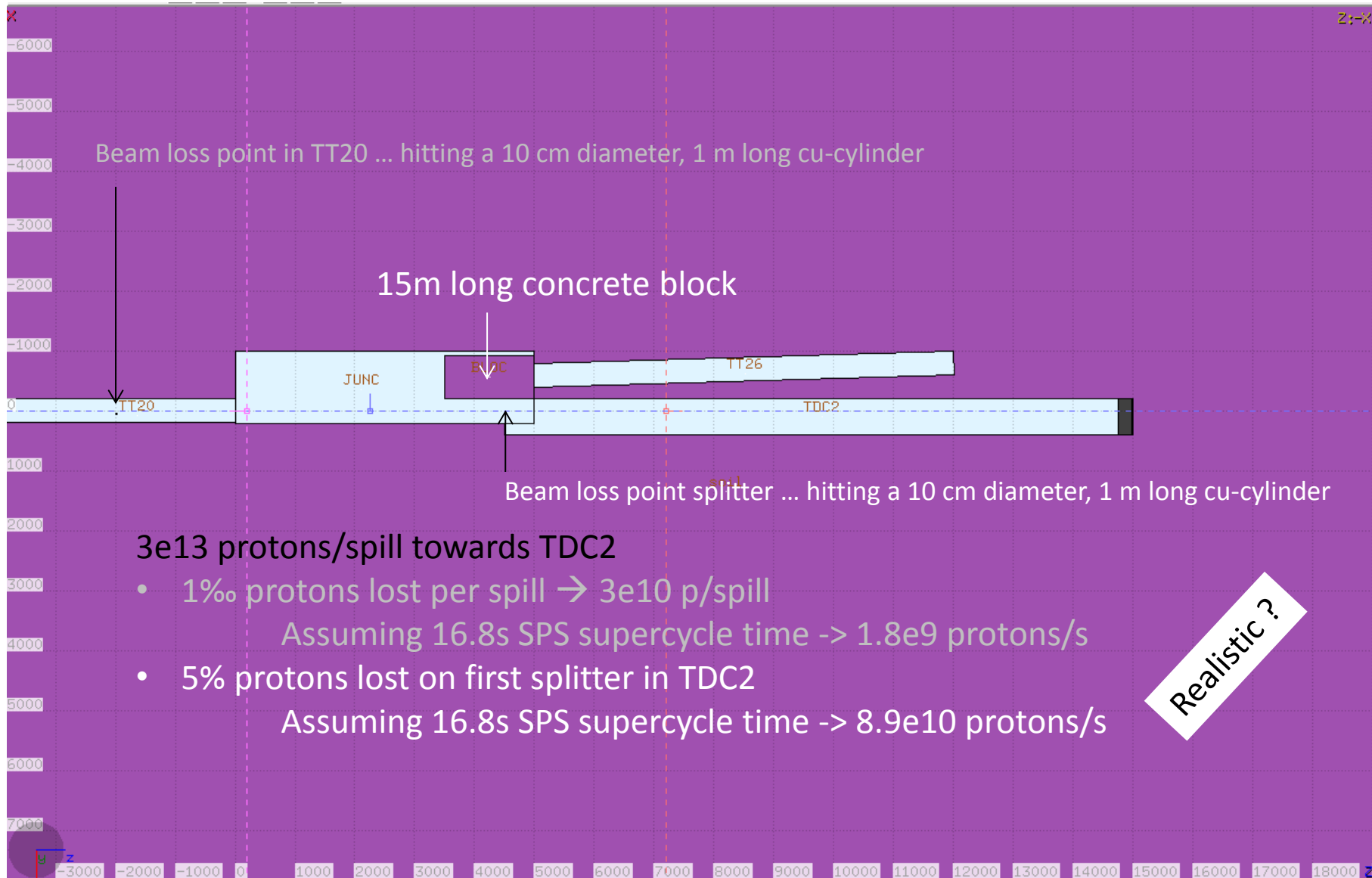


# TT20/TDC2 beam loss

CENF project technical meeting

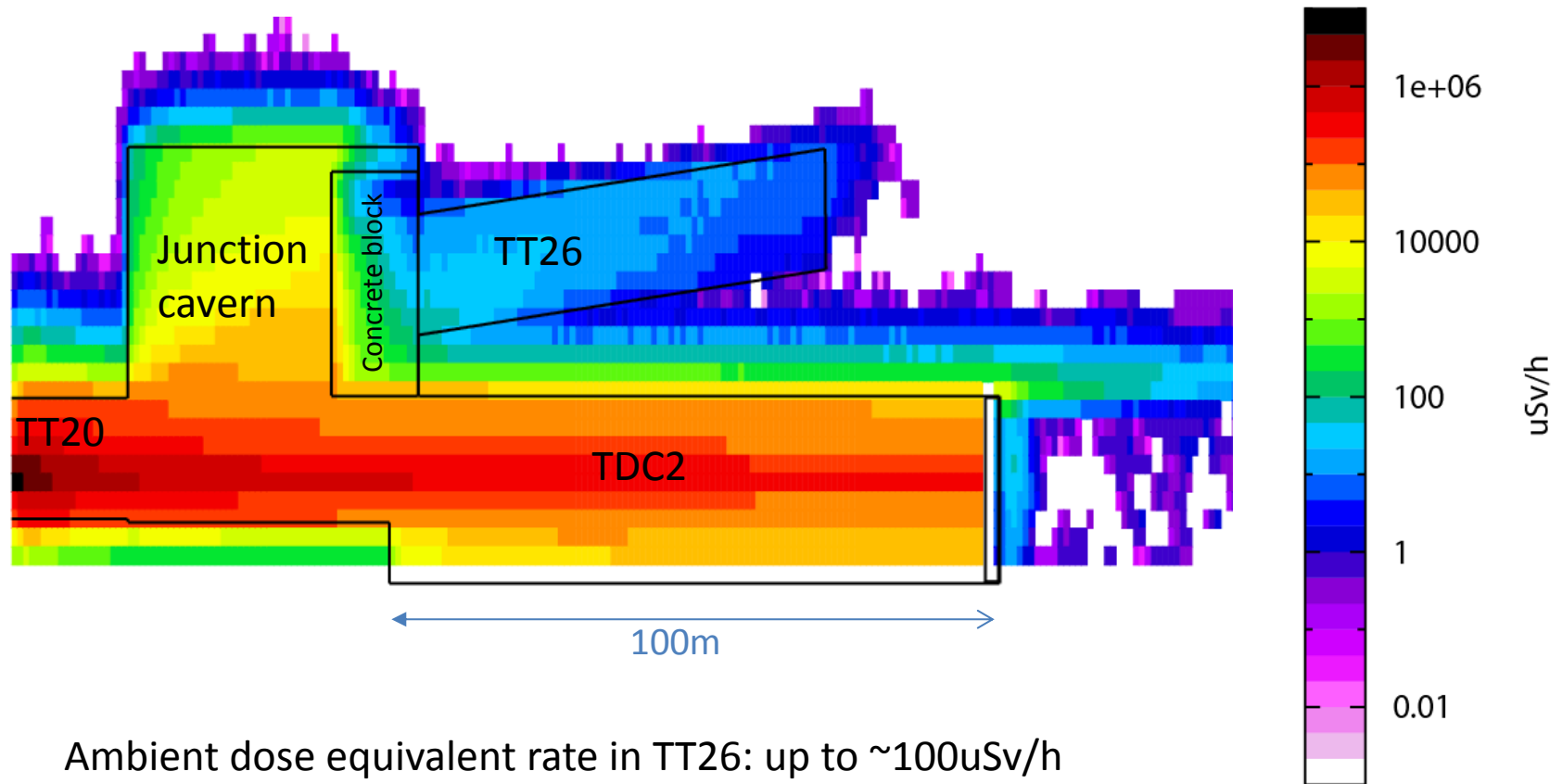
21.3.2013

# Beam loss in TT20/TDC2 (400 GeV protons)



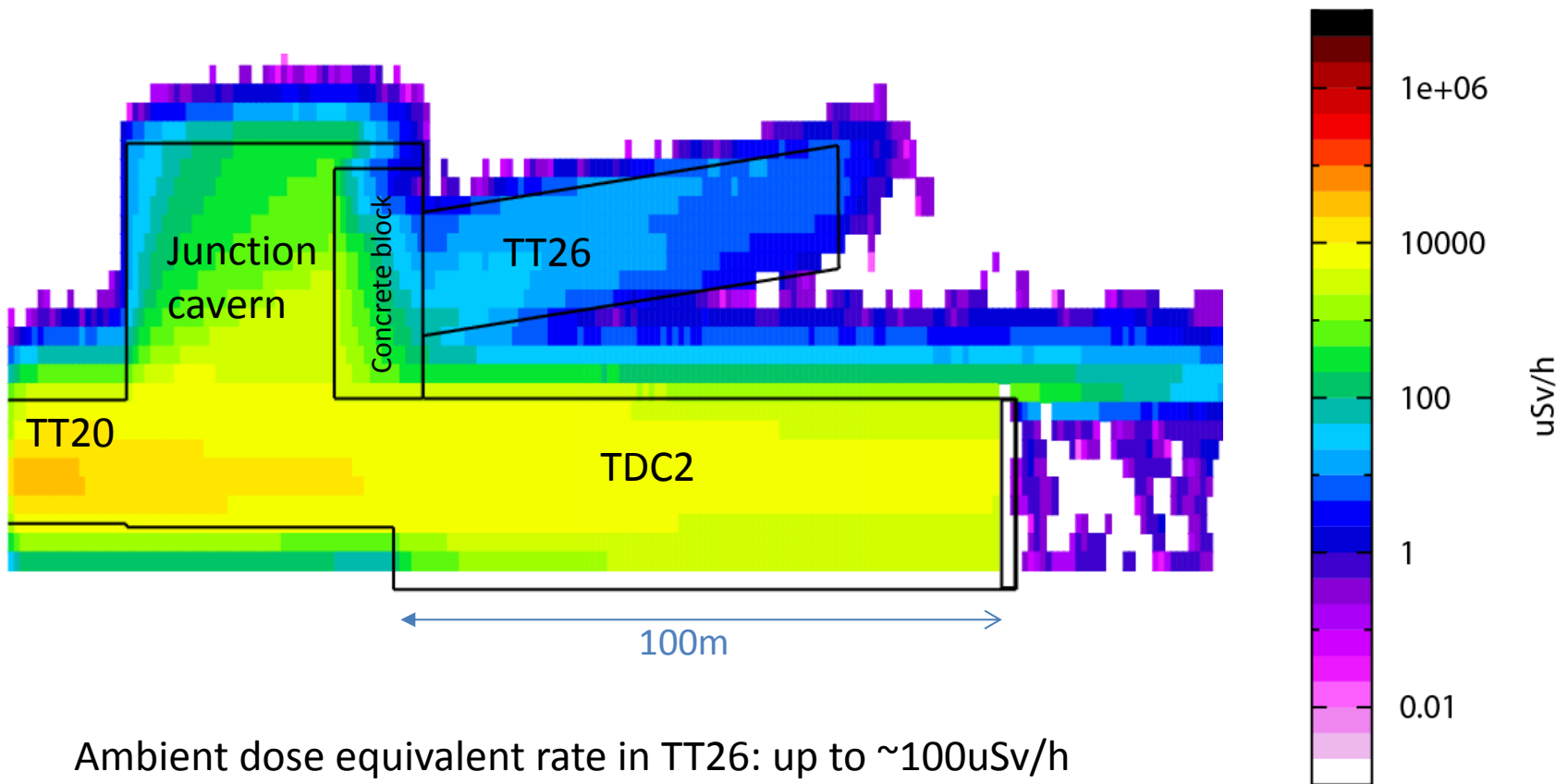
# H\*(10) (from hadrons & muons) in TT26

1 ‰ beam loss in TT20



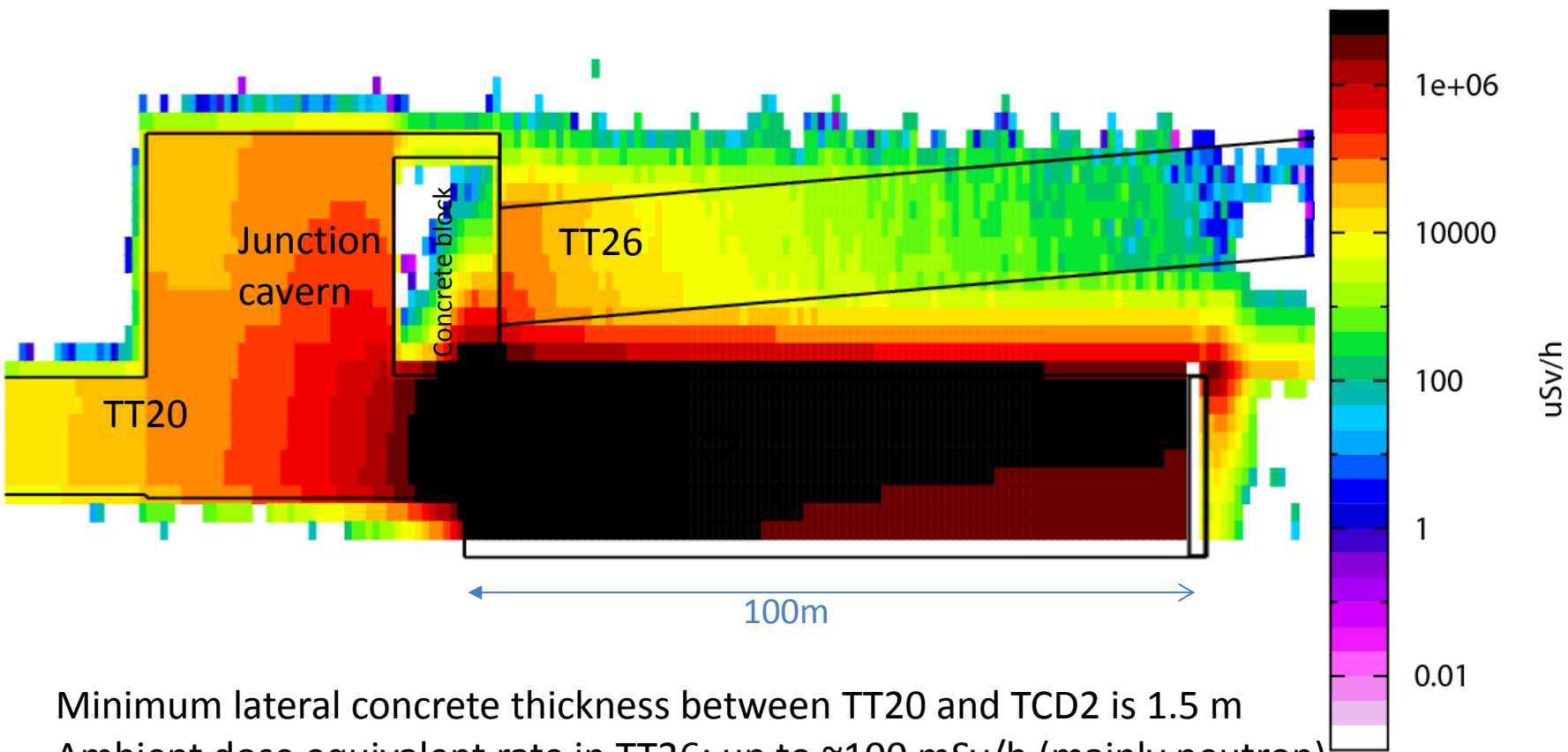
# H\*(10) (from muons) in TT26

1 ‰ beam loss in TT20



# H\*(10) (from hadrons & muons) in TT26

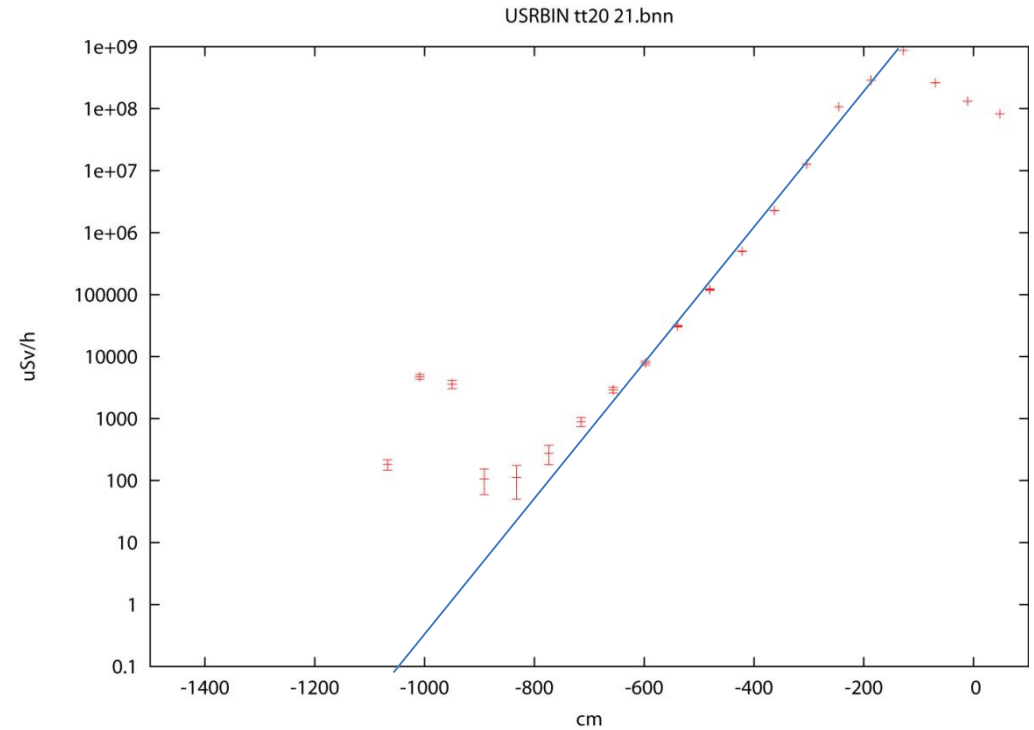
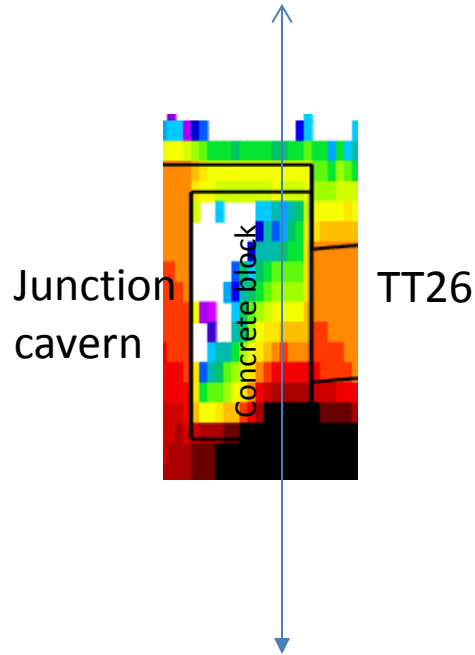
## 5 % beam loss on first splitter in TDC2



Minimum lateral concrete thickness between TT20 and TCD2 is 1.5 m  
Ambient dose equivalent rate in TT26: up to ~100 mSv/h (mainly neutron)  
Note: we also have a second splitter in TCD2

# H\*(10) (from hadrons & muons) in TT26

## 5 % beam loss on first splitter in TDC2



~ 9 m concrete needed (laterally to the splitter) to shield to 0.1  $\mu\text{Sv/h}$