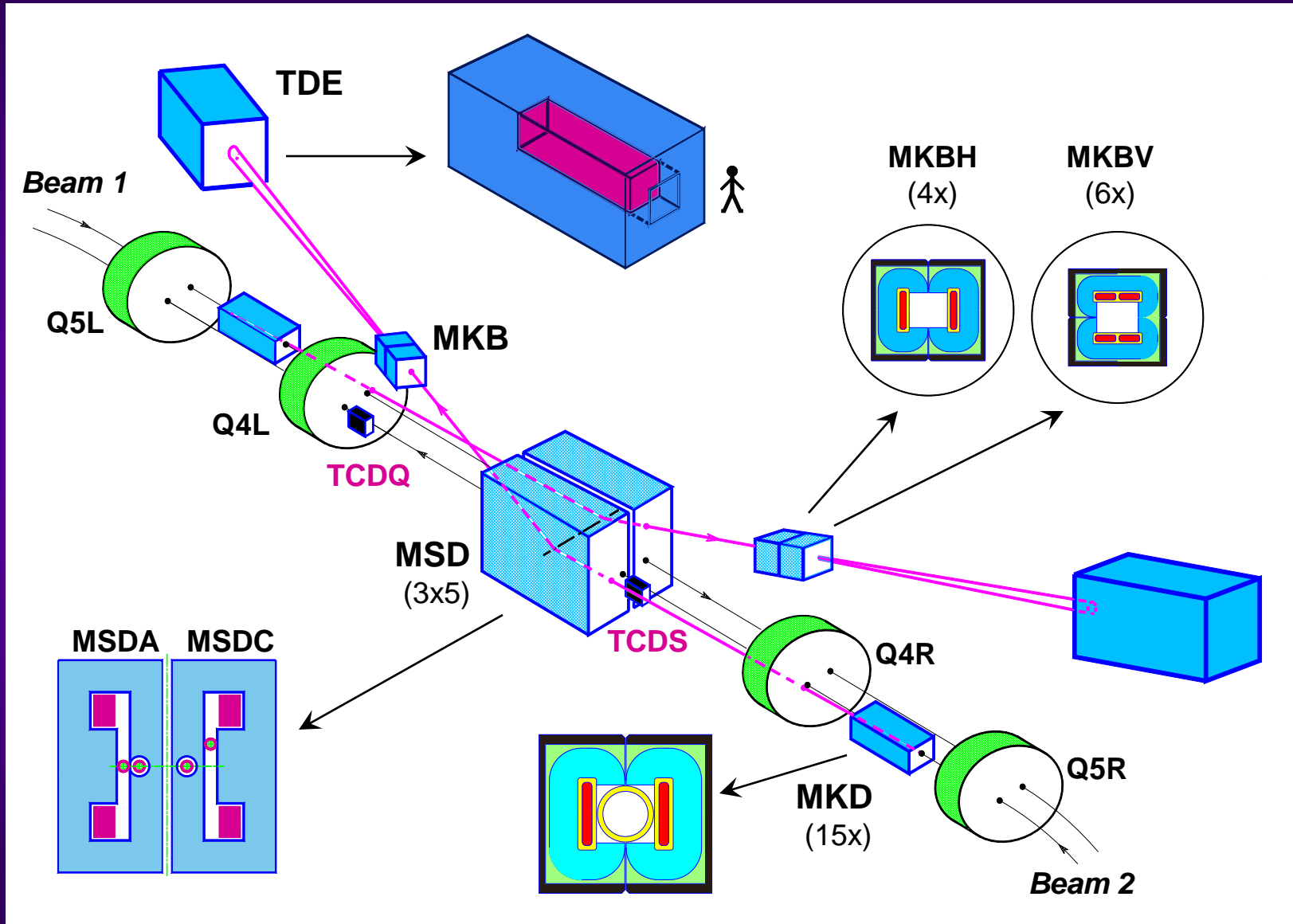


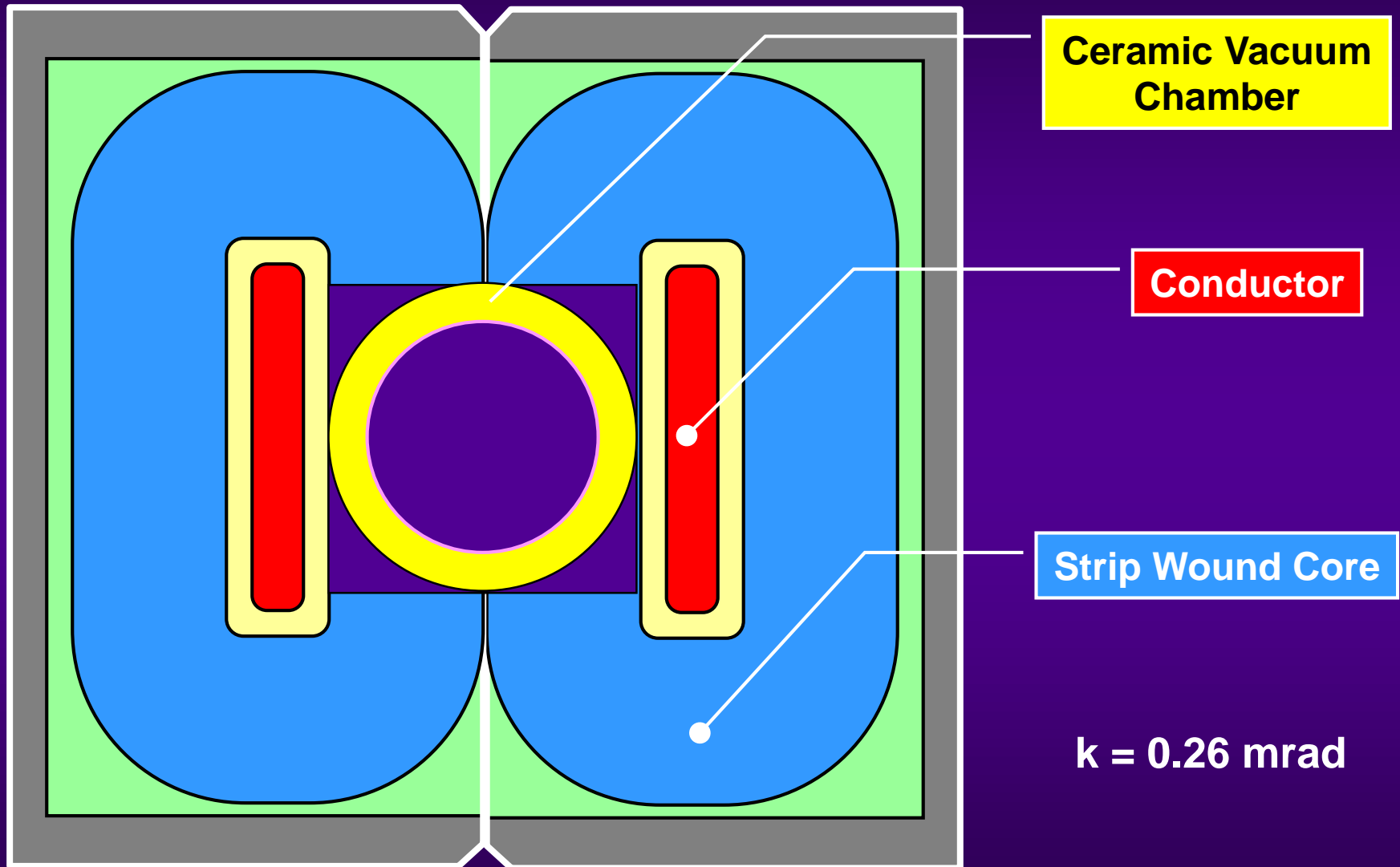
# The LHC Beam Dump System

Aperture limitations  
in the MSD septum  
magnet

# Schematic Layout

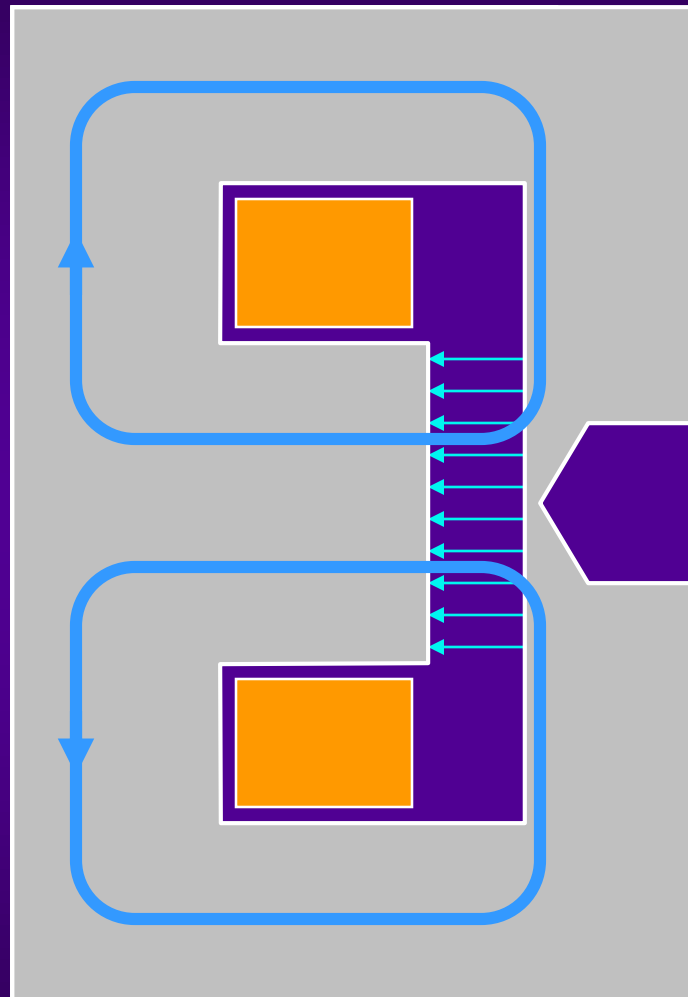


# MKD cross section (schematic)



# Lambertson septum magnet (principle)

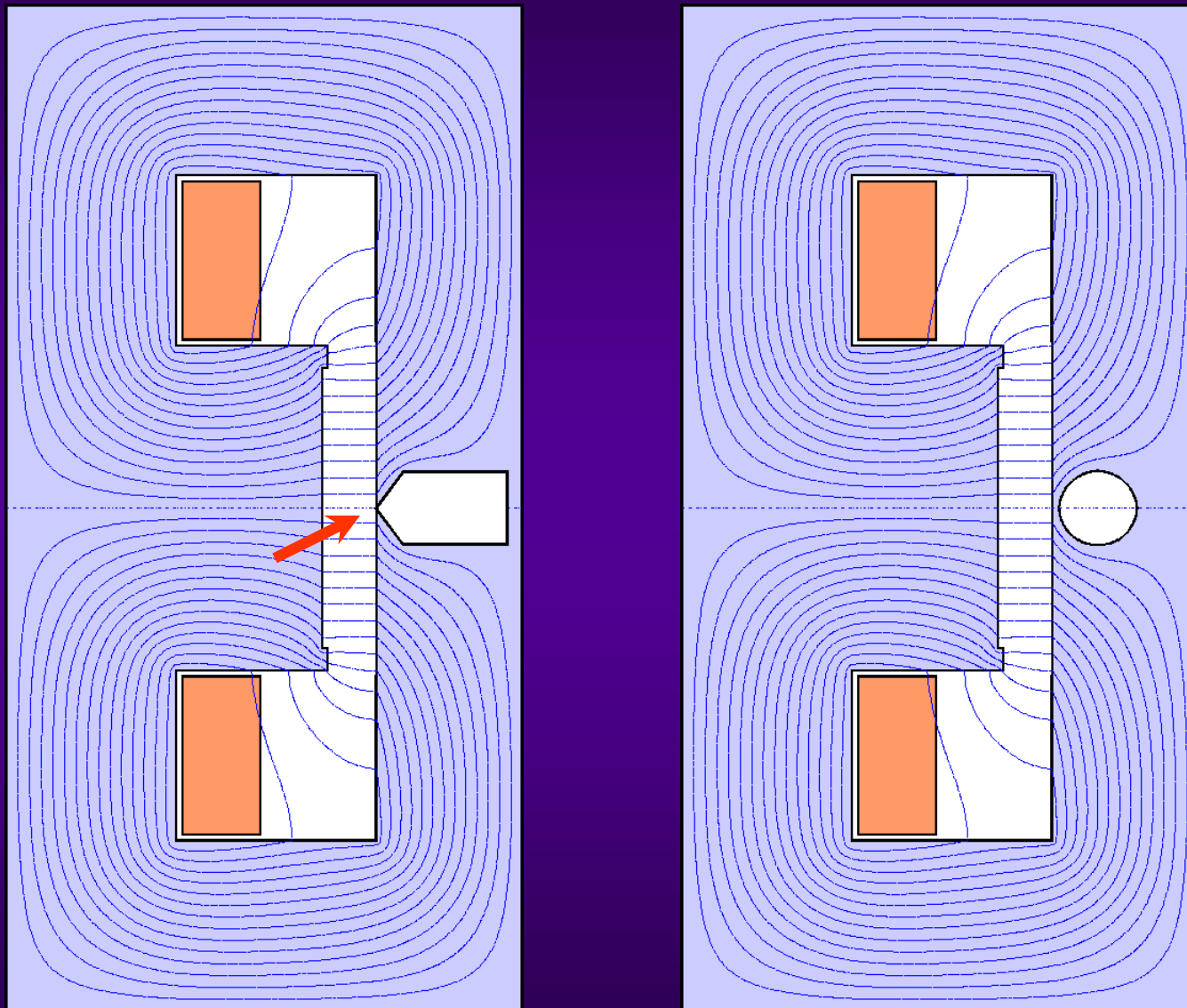
the deflection of the septum is **orthogonal** to the one of the kicker



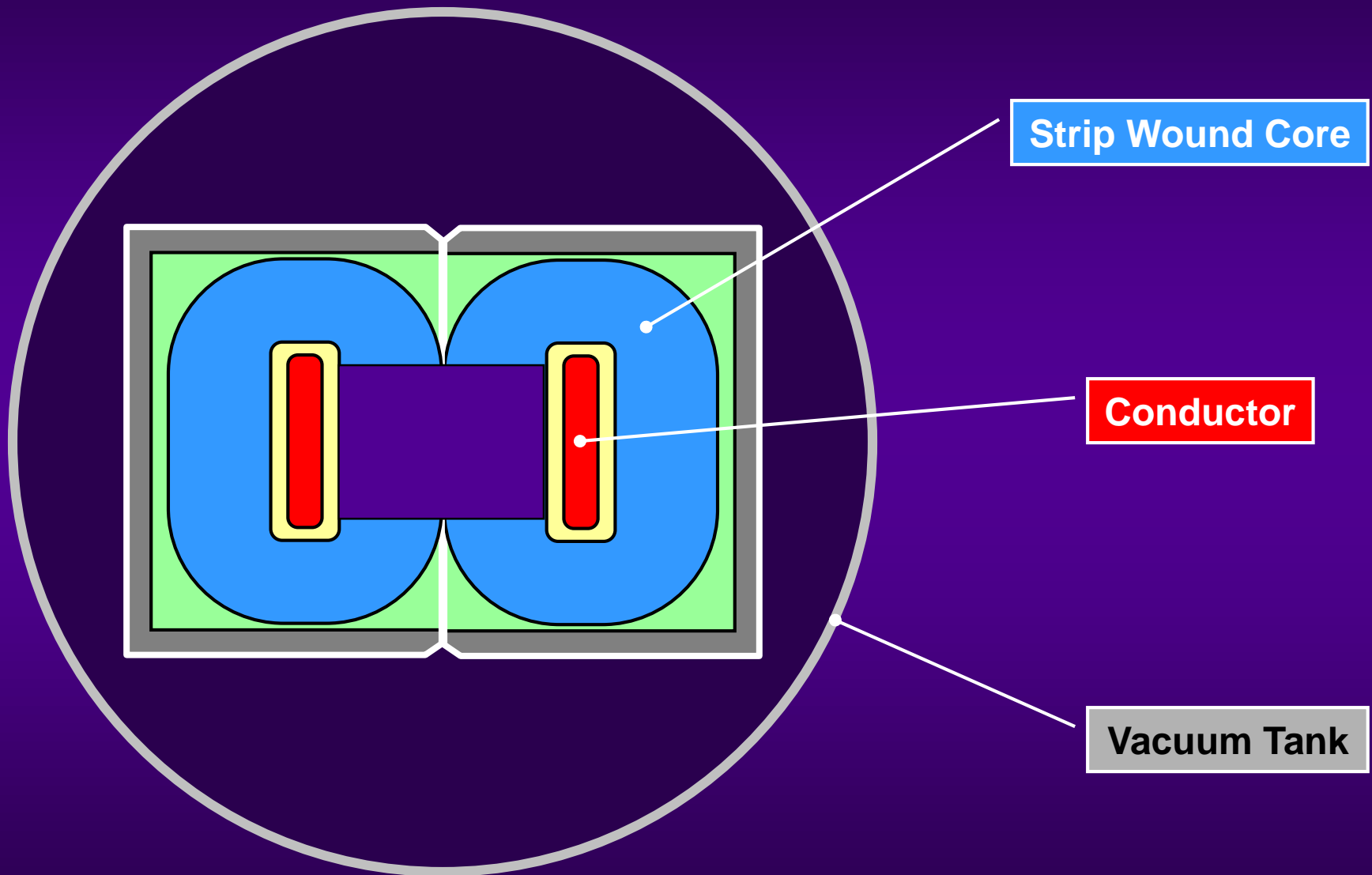
Saturation of septum

Add iron

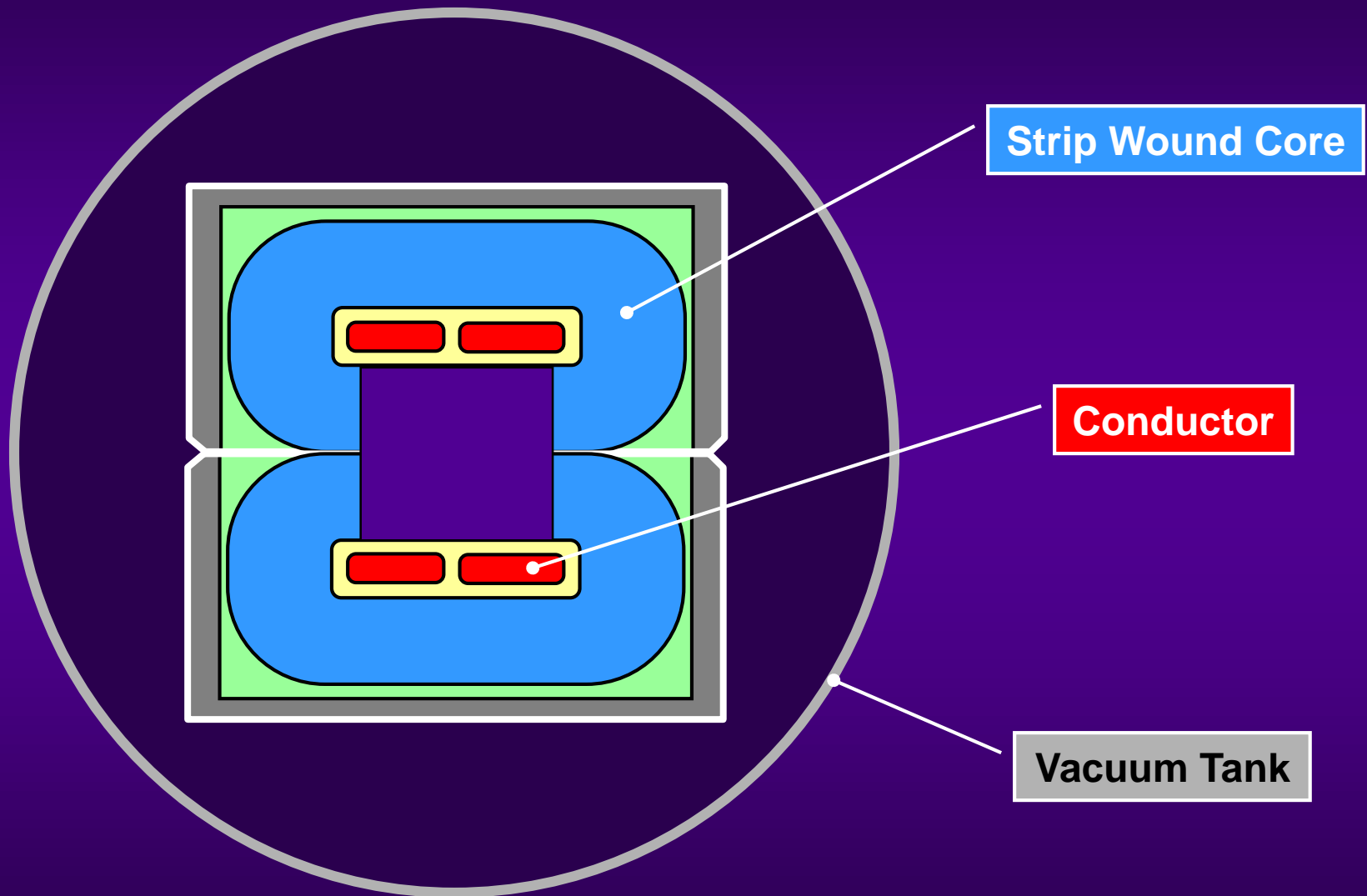
# Beam dump septum magnet MSD



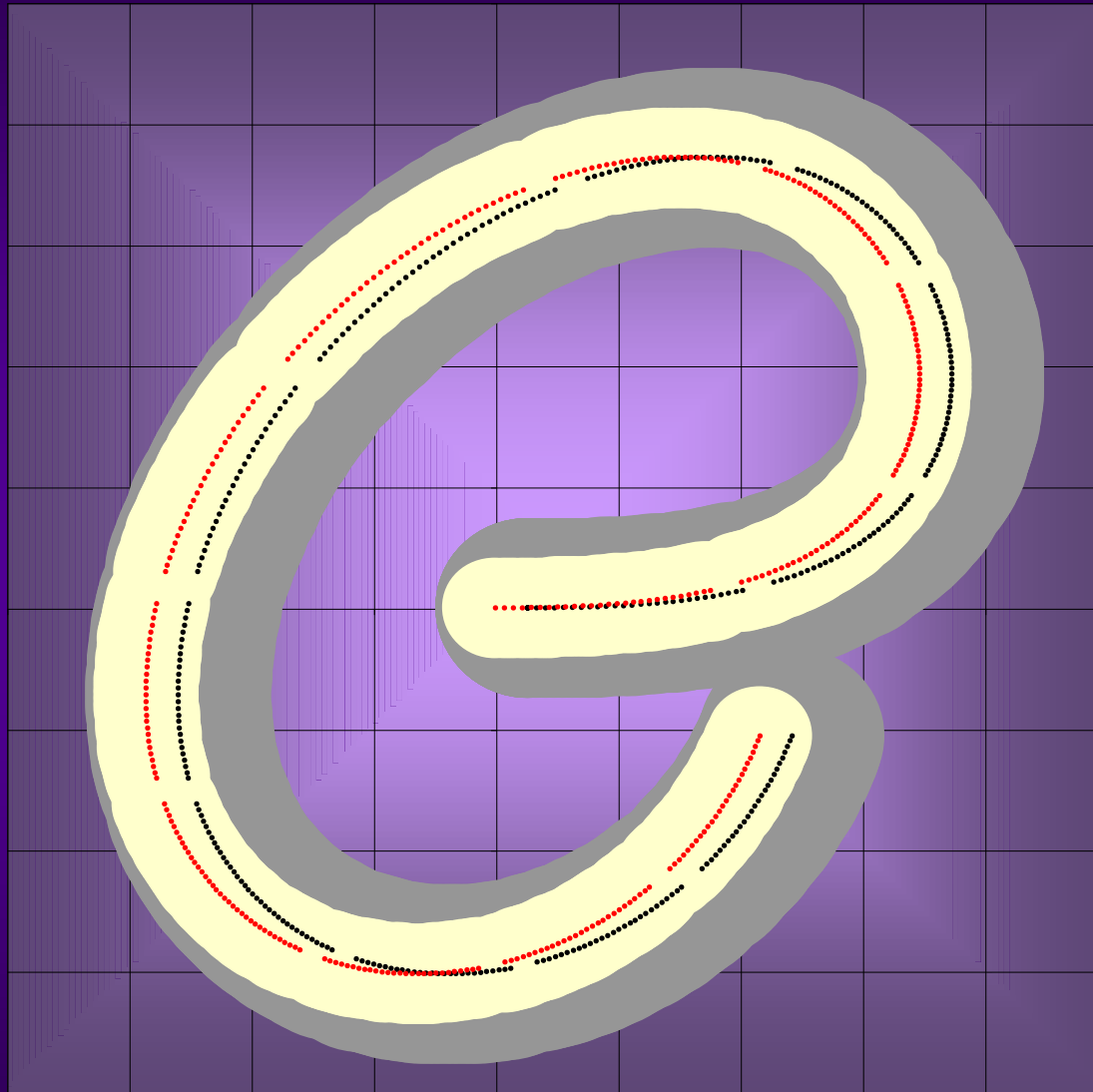
# MKBH cross section (schematic)



# MKBV cross section (schematic)

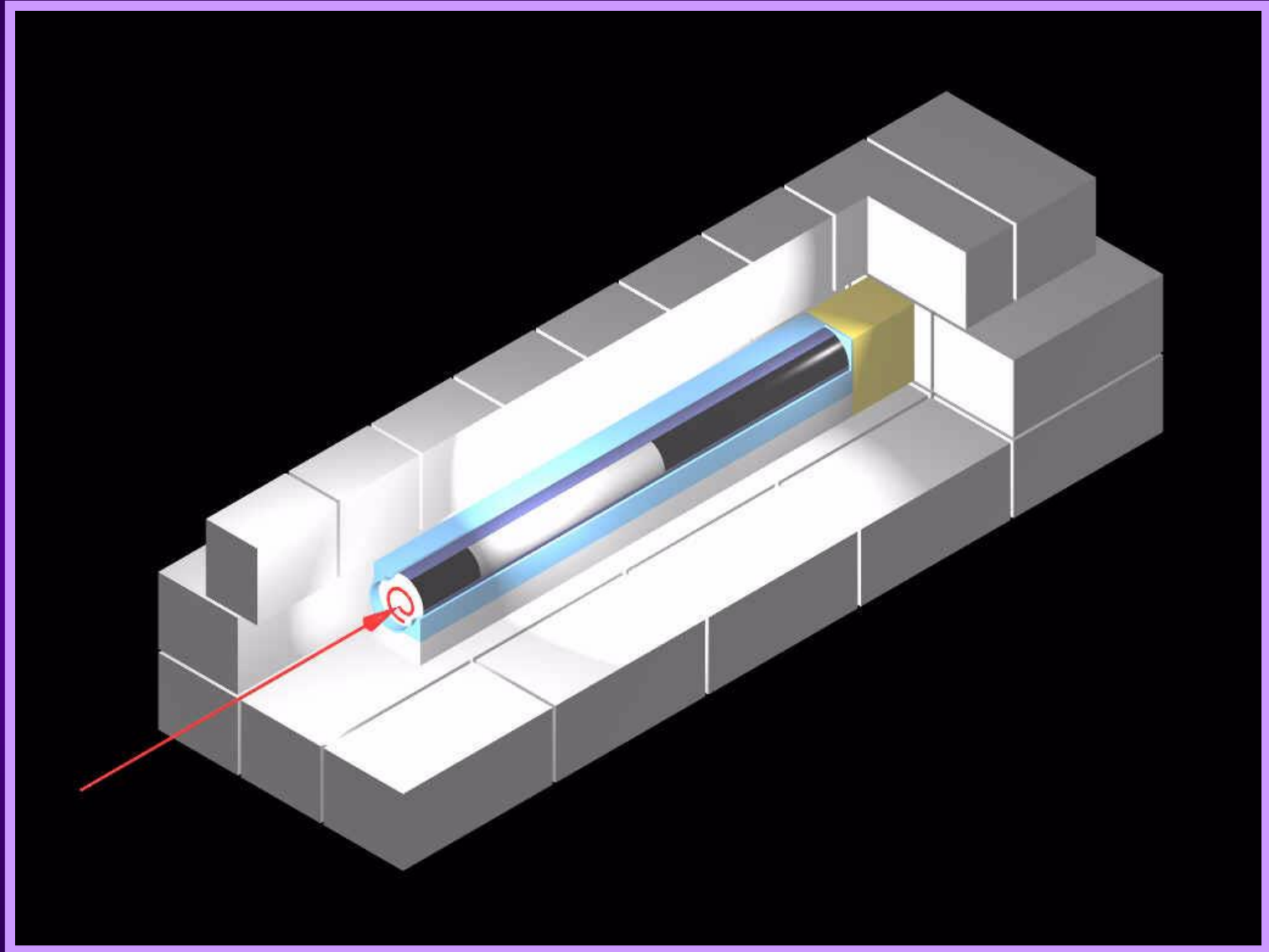


# Beams on TDE

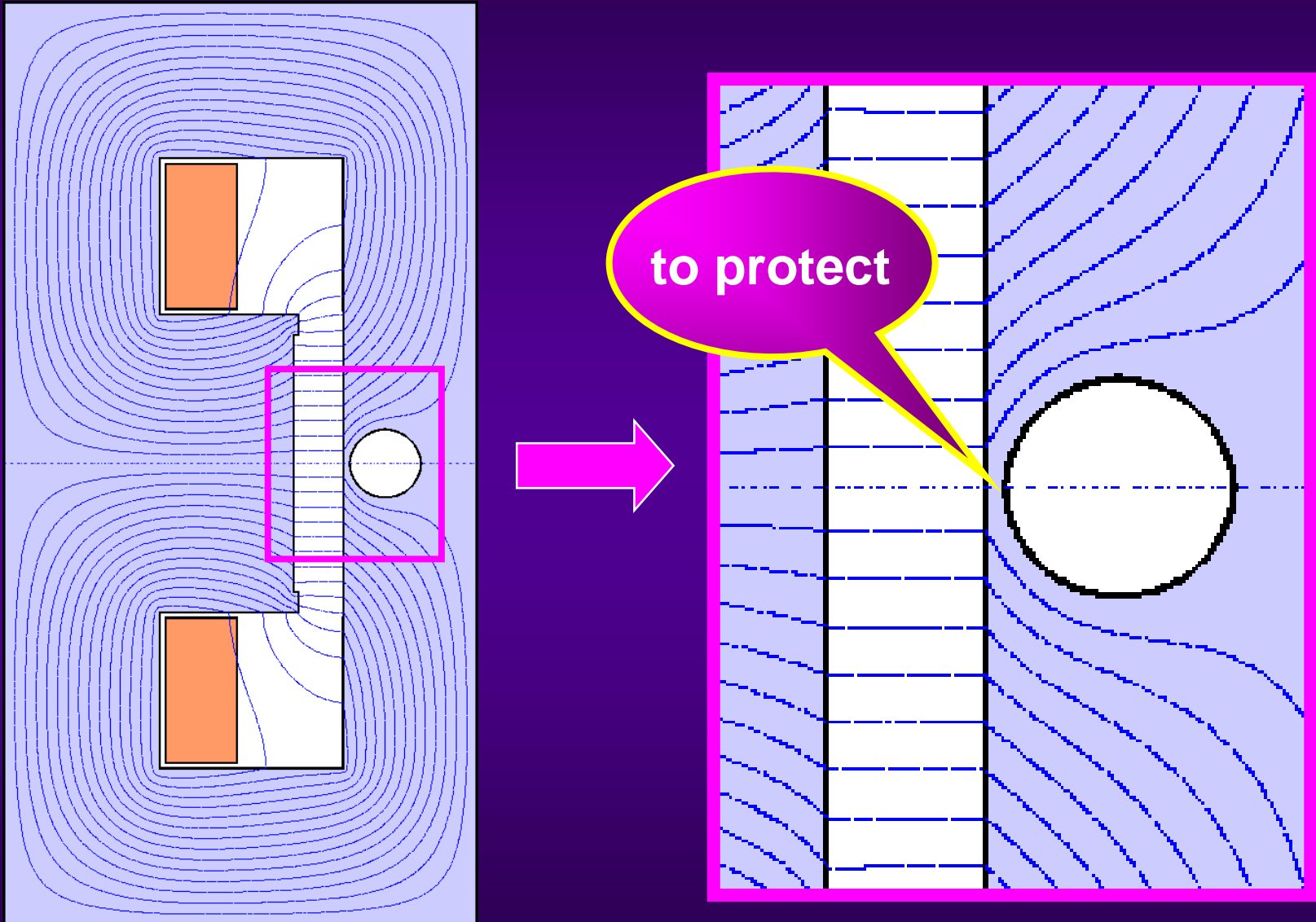




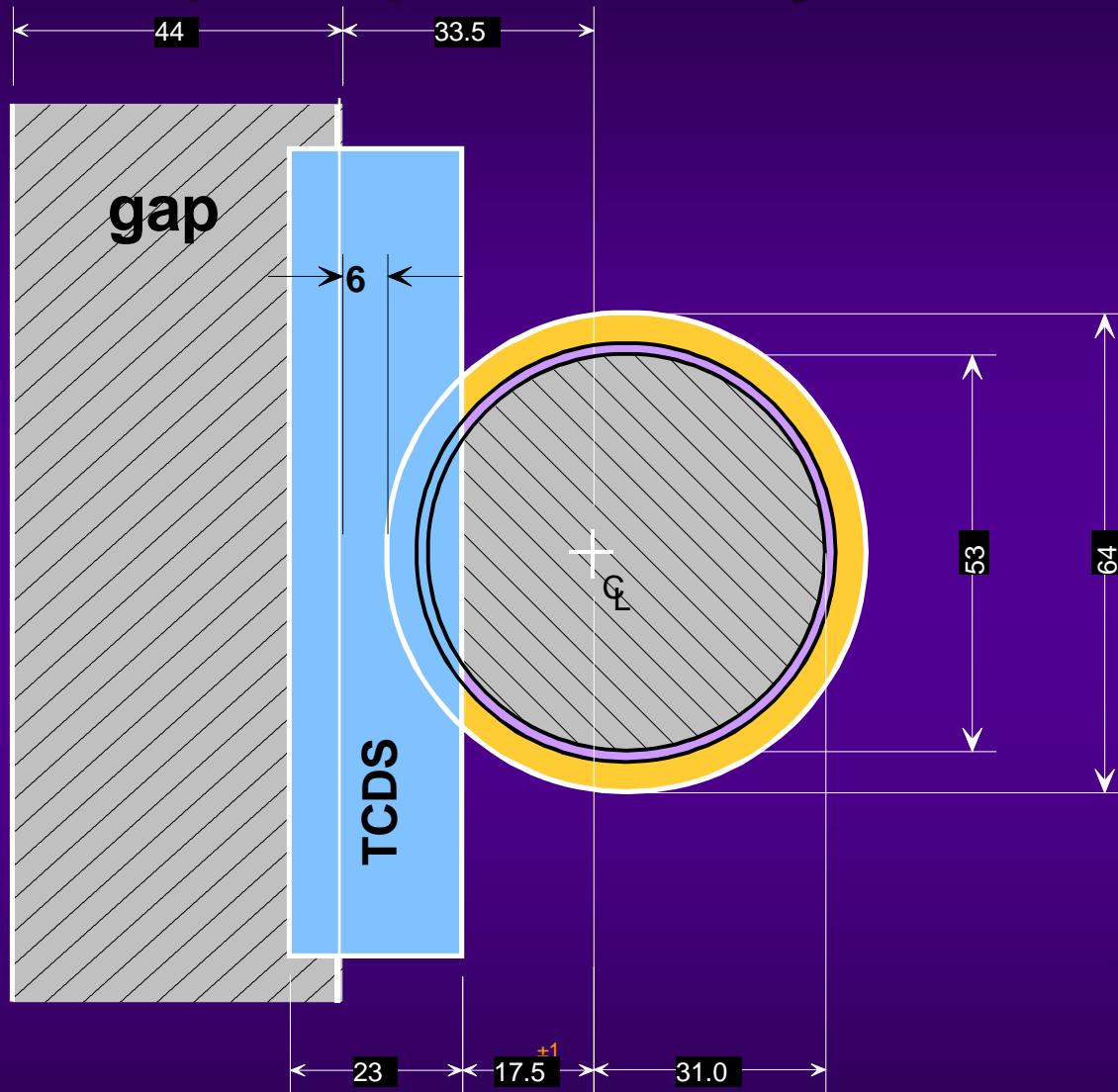
# TDE



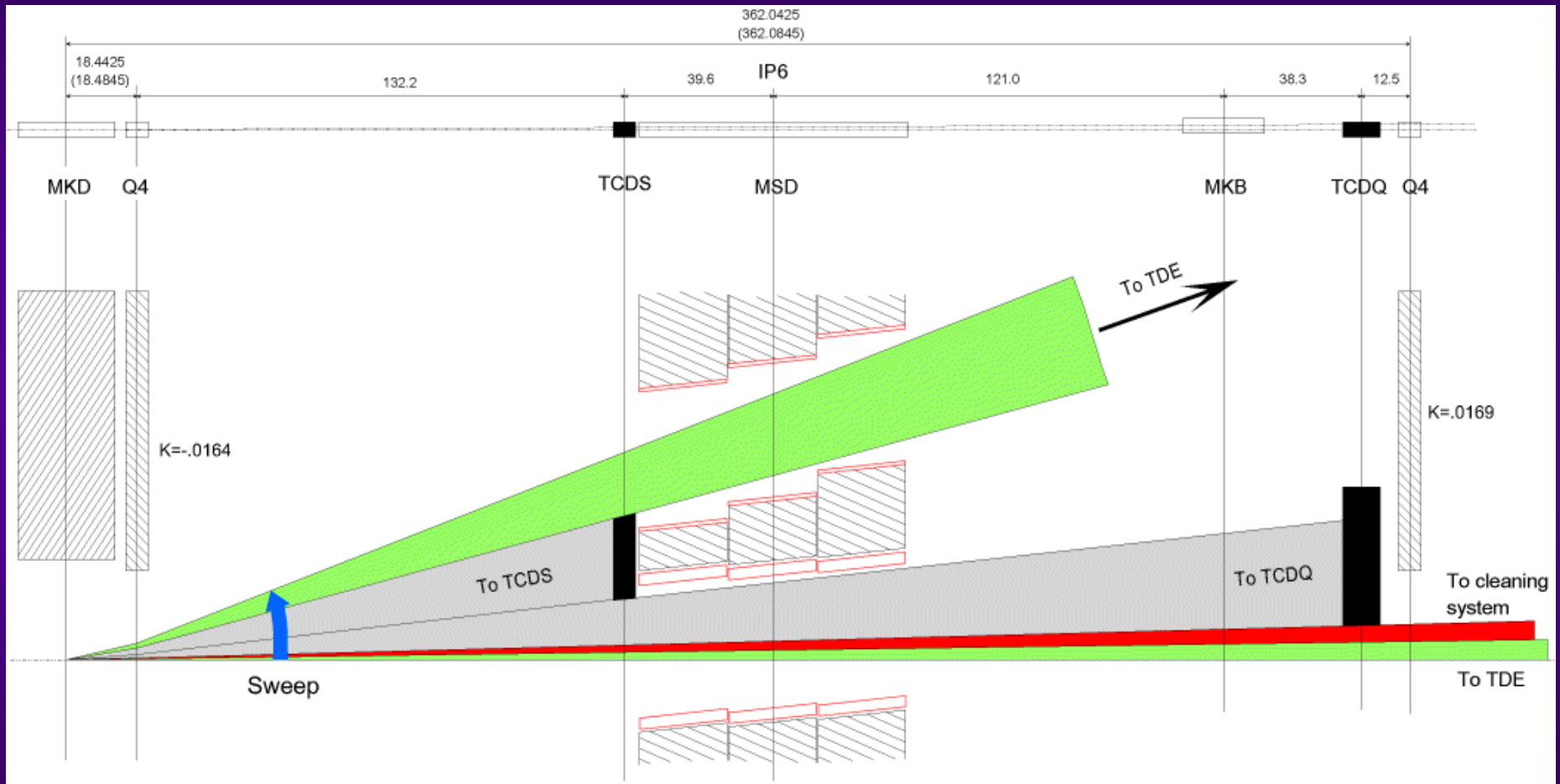
# Unsynchronized Beam Dump



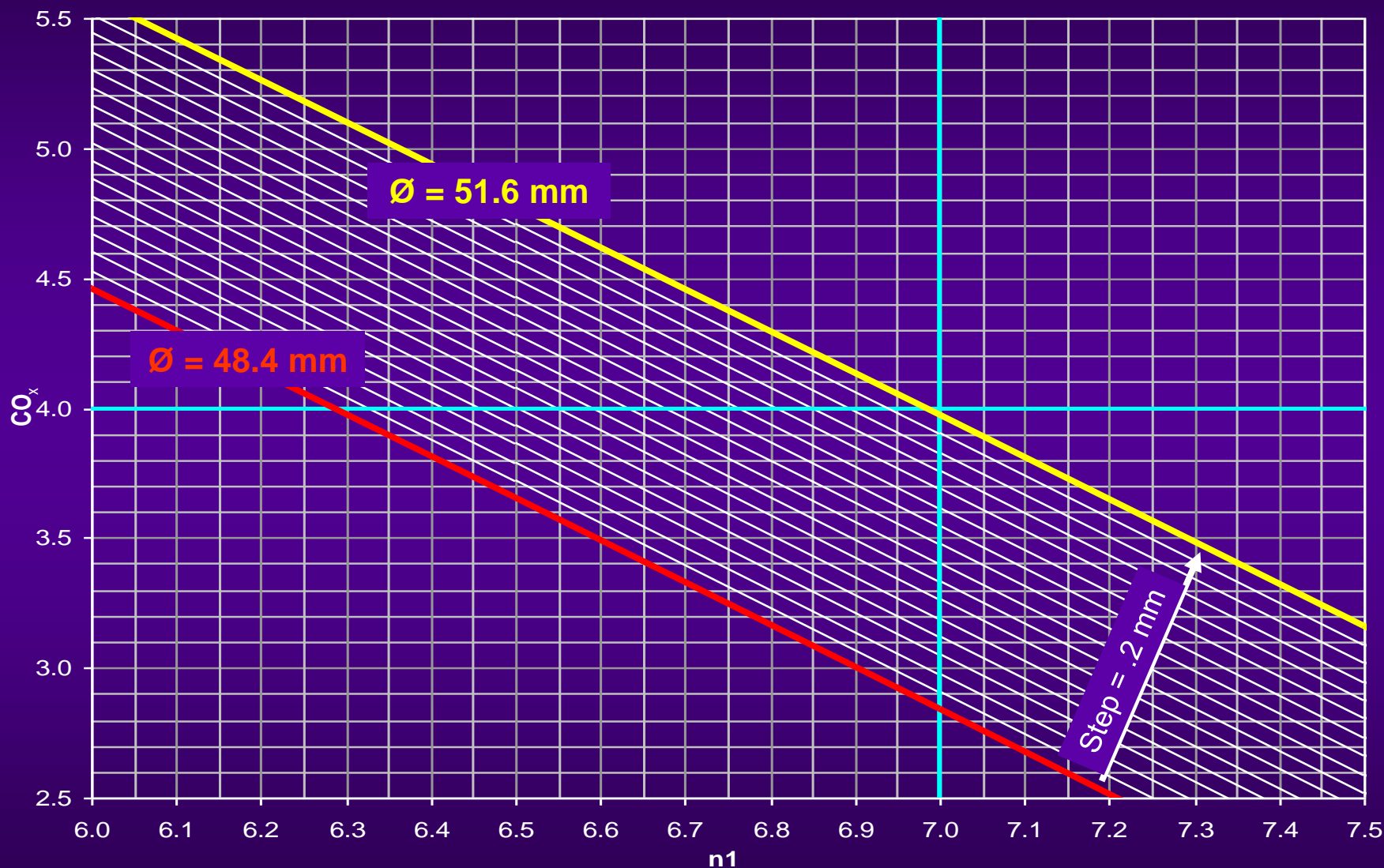
# Septum protected by TCDS



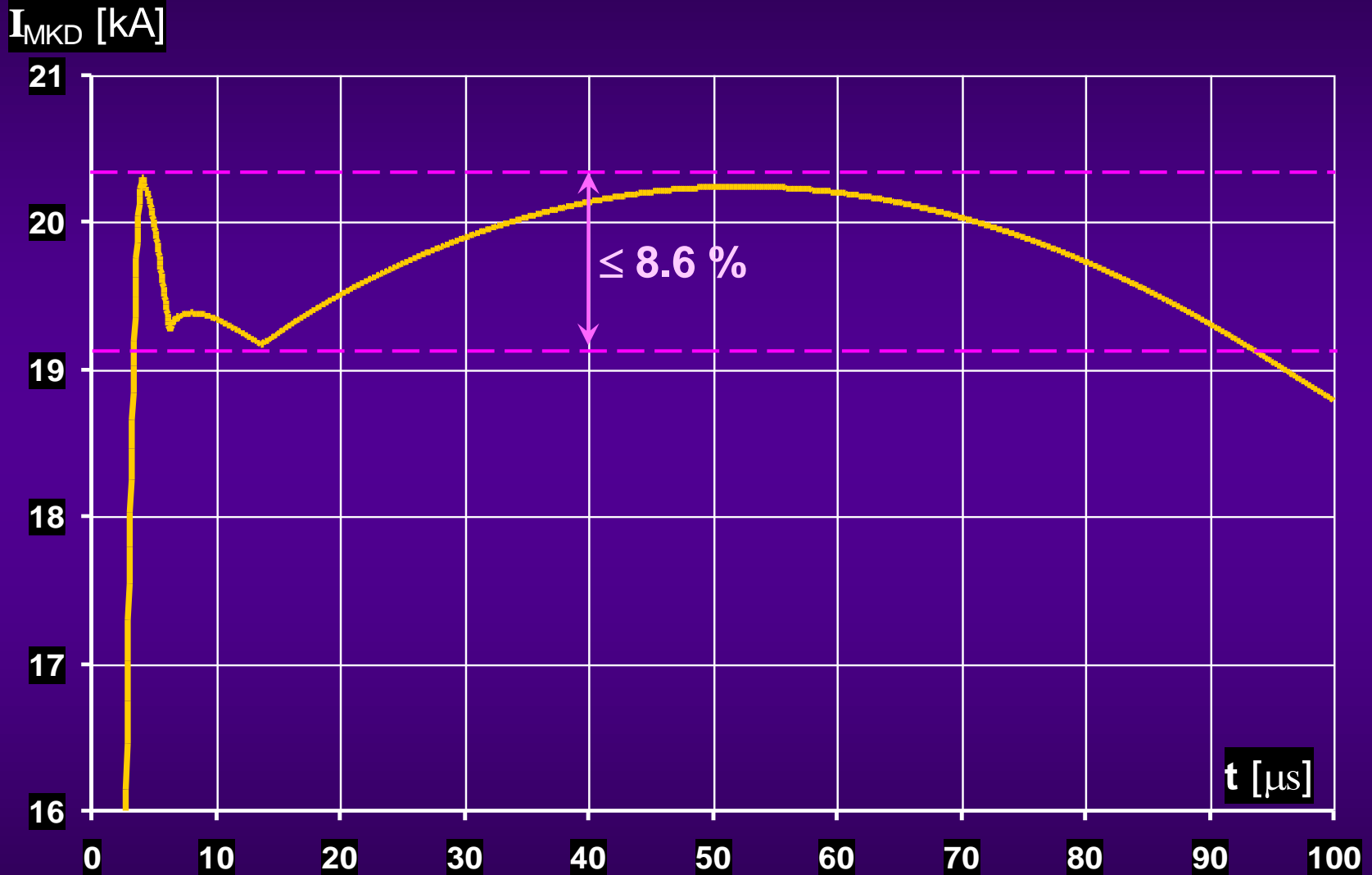
# MSD Alignment



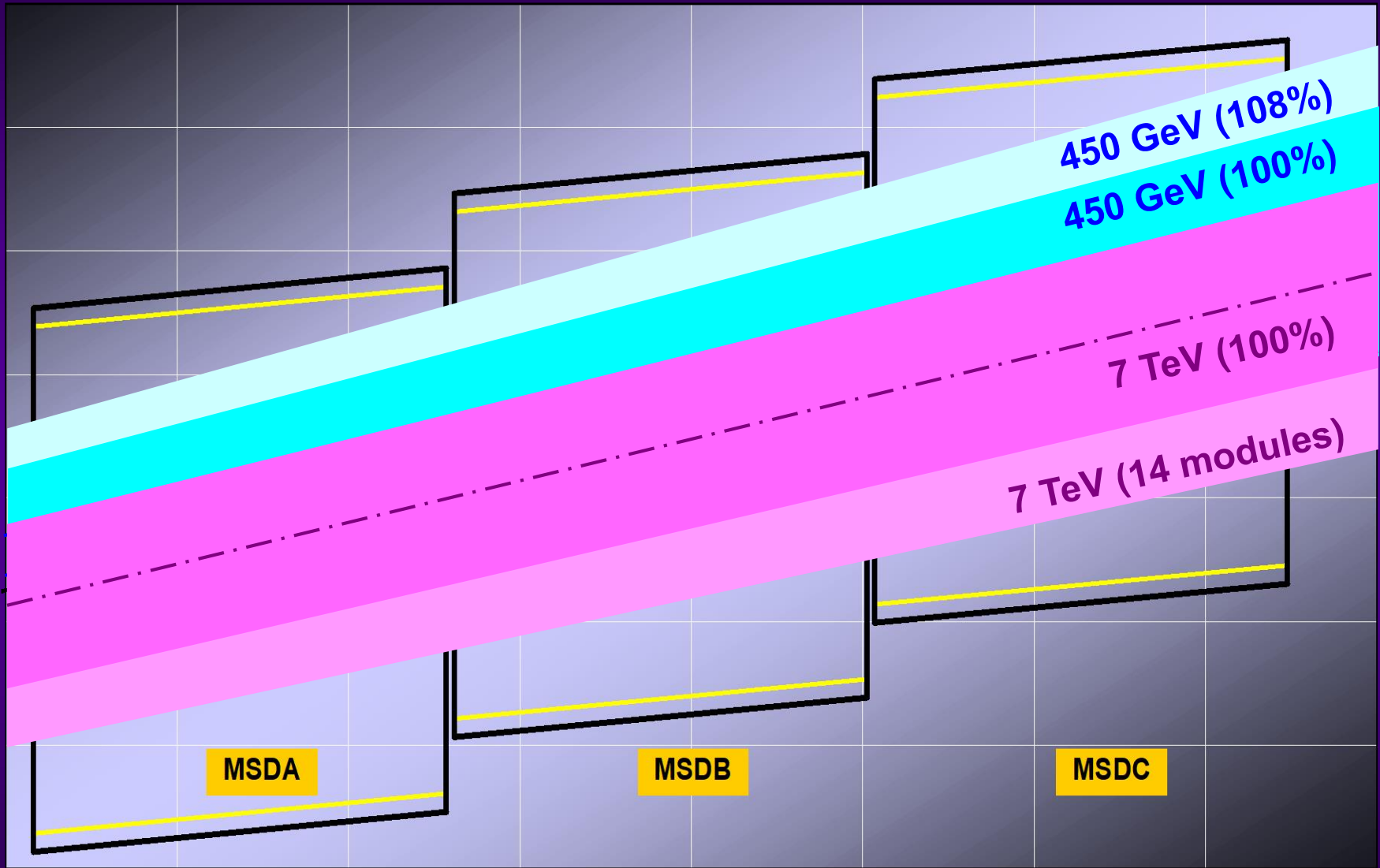
# $CO_x = CO_x(n1)$ ; parameter = VC clear aperture



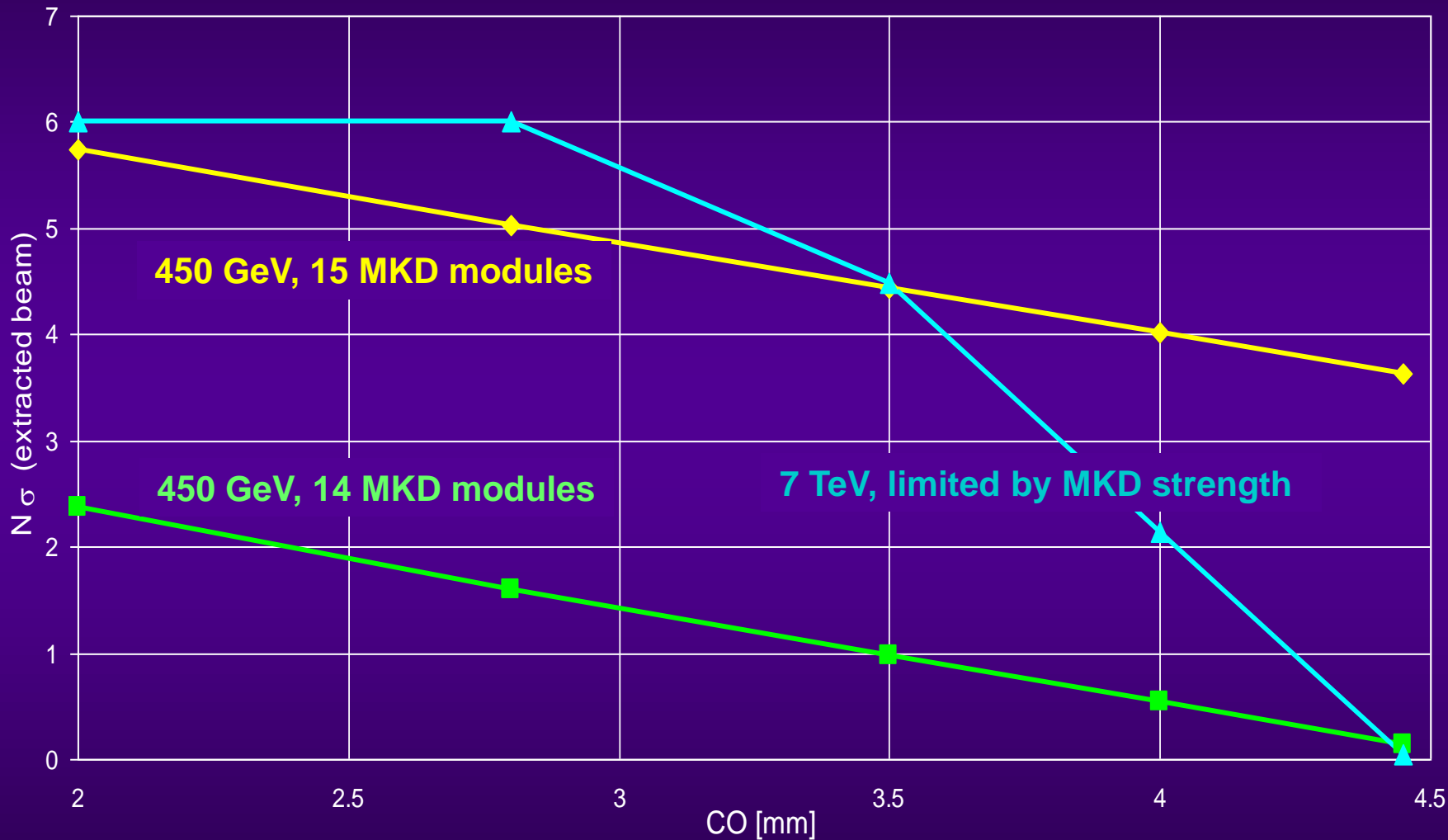
# MKD Flat-top Current Variation



# “Nominal” Beams in Gap (horizontal)



# Admittance ( $\sigma$ ) as function of Closed Orbit





# Admittance ( $\sigma$ ) as function of $n1$

