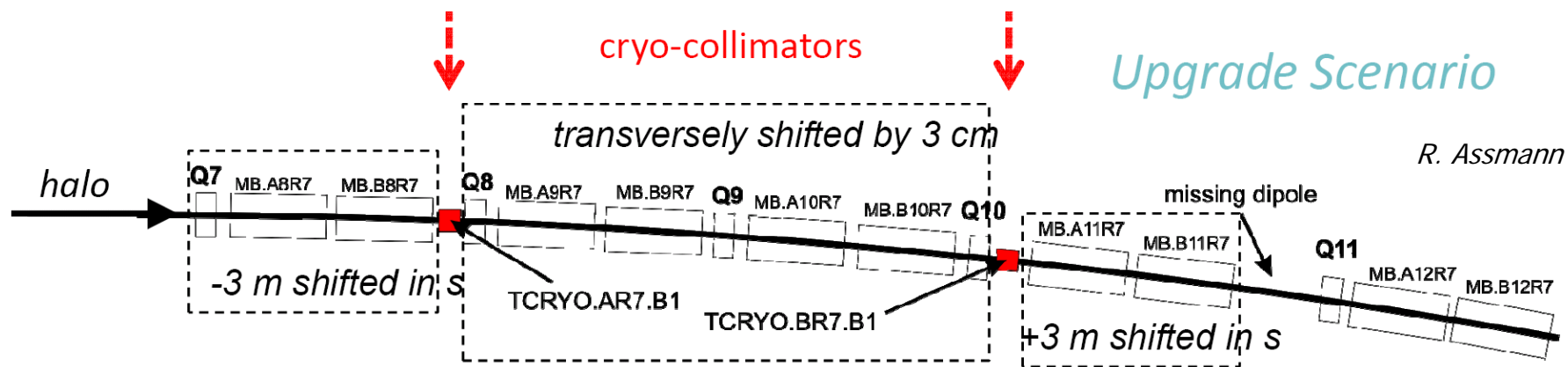
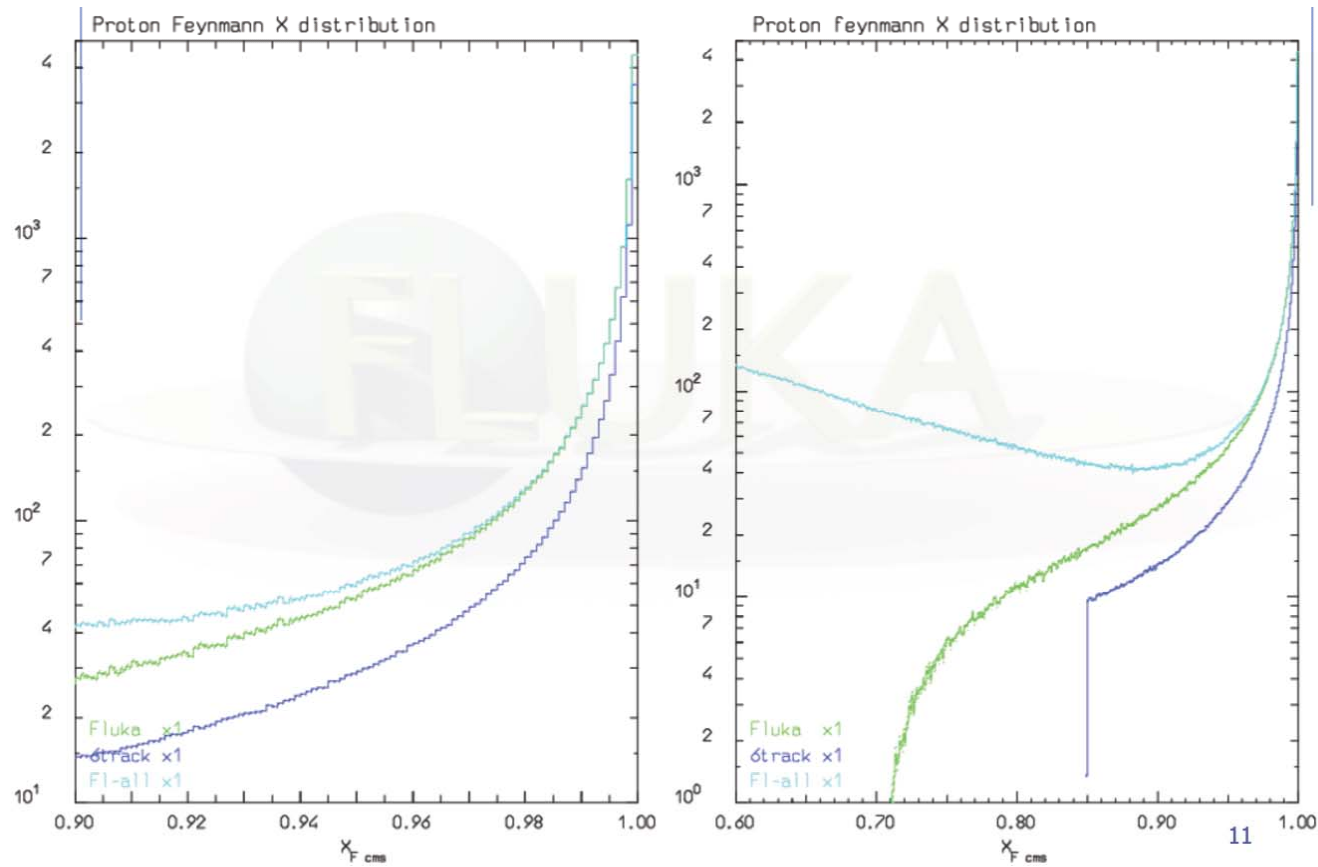


TCRYO EFFECT ON POWER DEPOSITION IN THE DISPERSION SUPPRESSOR



F. Cerutti for the FLUKA team

RENORMALIZED BEAM HALO



A. Ferrari

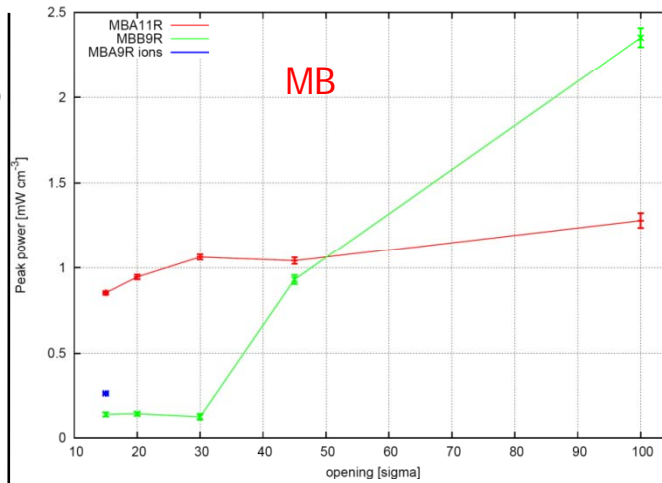
EFFECT OF THE TCRYO OPENING

1m copper with 15, 20, 30, 45 sigma half-gap
(100 sigma half-gap means no TCRYO)

peak power in the coils

past estimations
(no TCRYO, DS untouched)

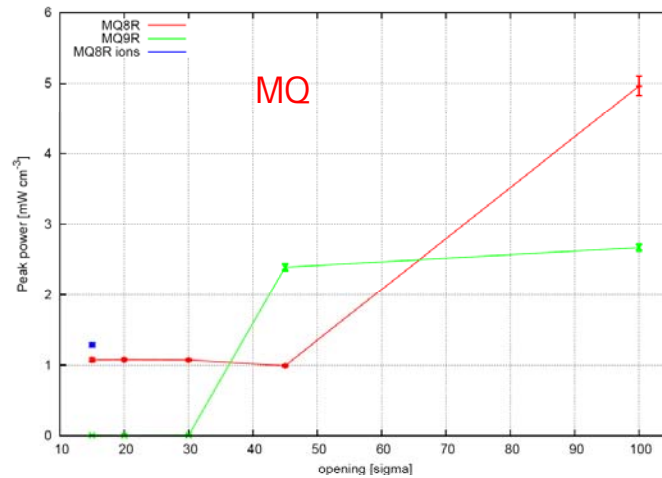
1.0 (3.05) MBB9R



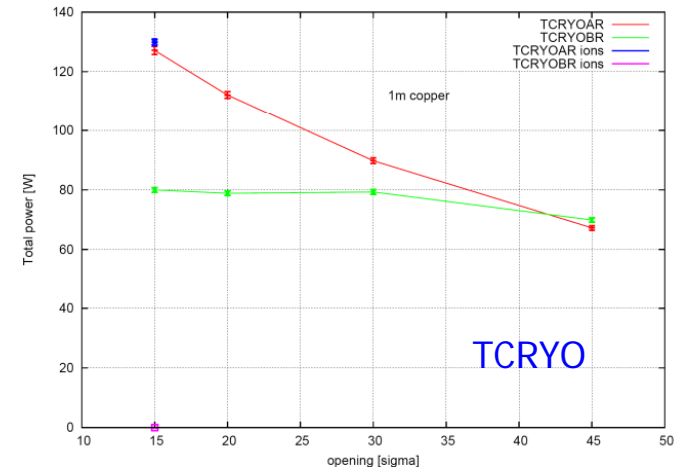
MQTLI

~1mW/cm³ (MQTLI8R) for 15, 20, 30 sigma
(for protons)

5.0 (2.64) MQ11R

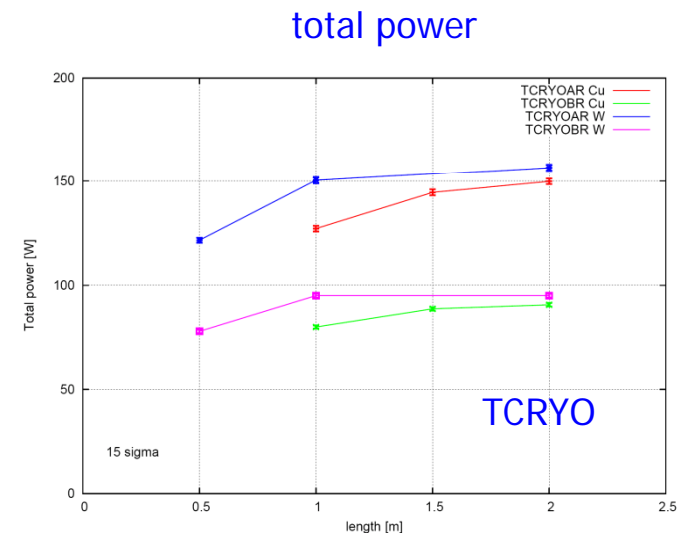
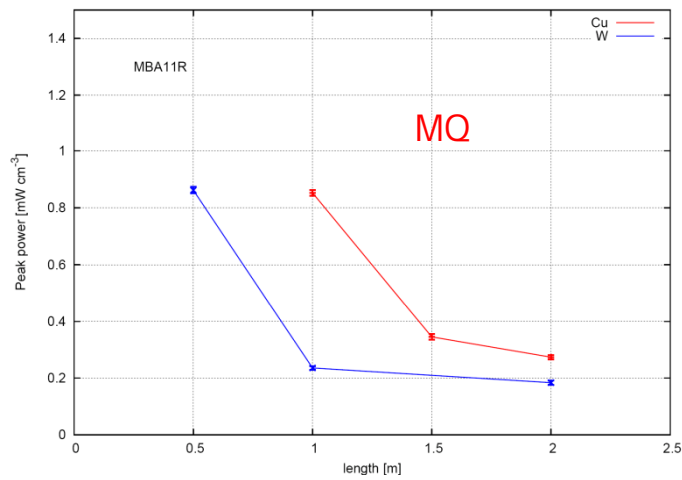
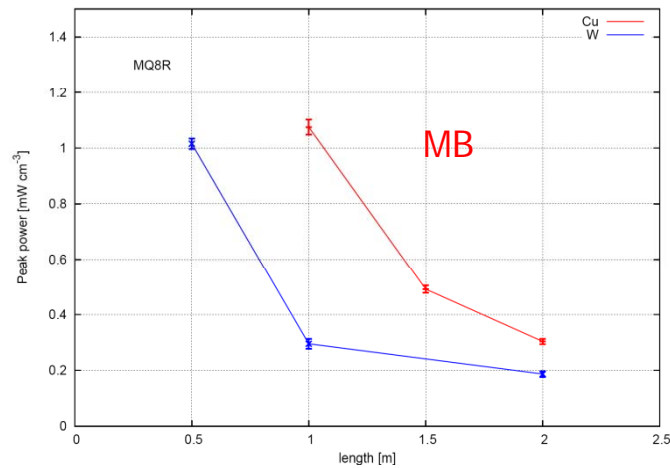


total power



EFFECT OF THE TCRYO LENGTH/MATERIAL

0.5, 1, 1.5, 2m copper/tungsten with 15 sigma half-gap



TOTAL POWER IN THE DS

