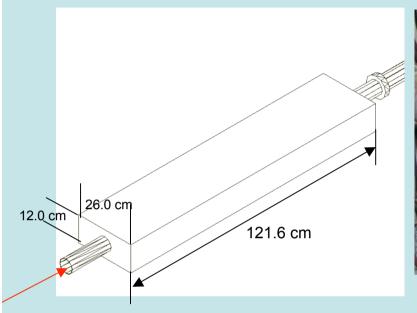
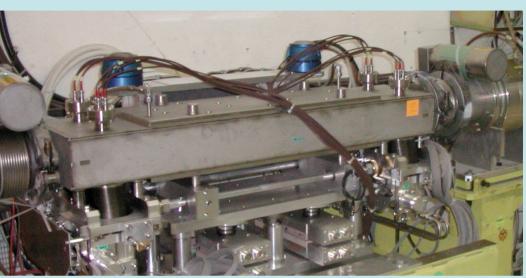
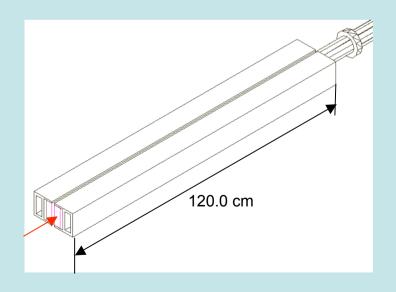
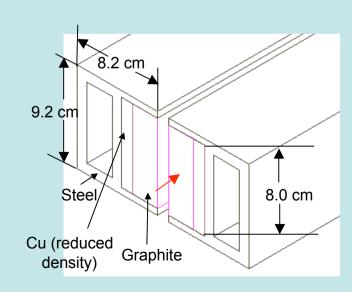
## TCDI collimator

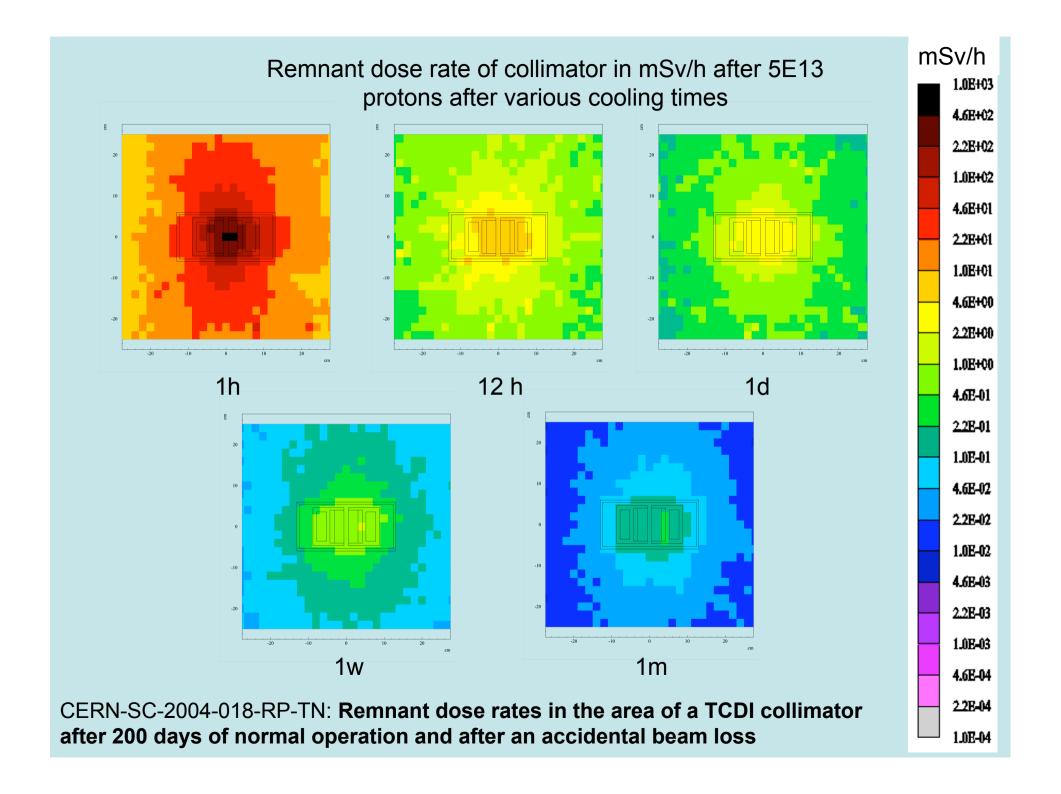
## TT40 collimator









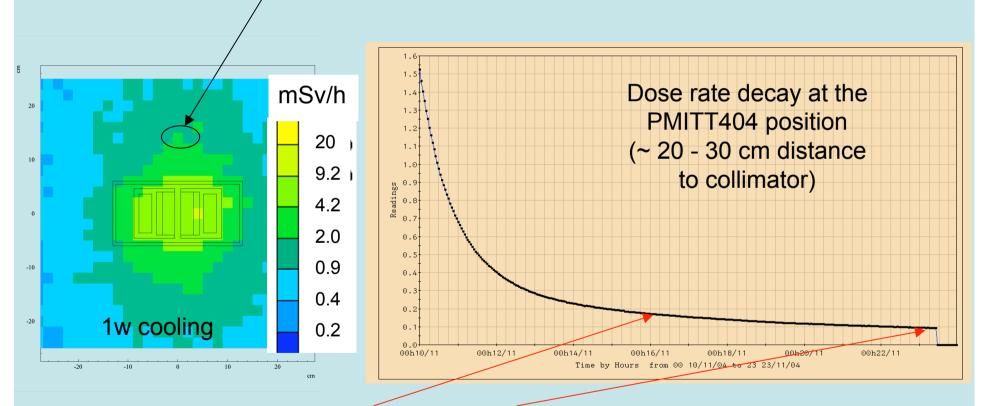


## Measurements at collimator on 23/11/2004 (14 days after beam impact)

Number of protons on collimator: 4.6E14 protons

Measured dose rate on top at the middle of collimator (distance: ~10 cm): 0.95 mSv/h

Simulated dose rate for 1 week cooling (scaled to 4.6E14 protons): ~ 2.0 mSv/h



Dose ratio between 1 week and 2 weeks 0.17mSv/h/0.09mSv/h =1.9

Simulated dose rate rescaled to two weeks cooling: ~1.1 mSv/h