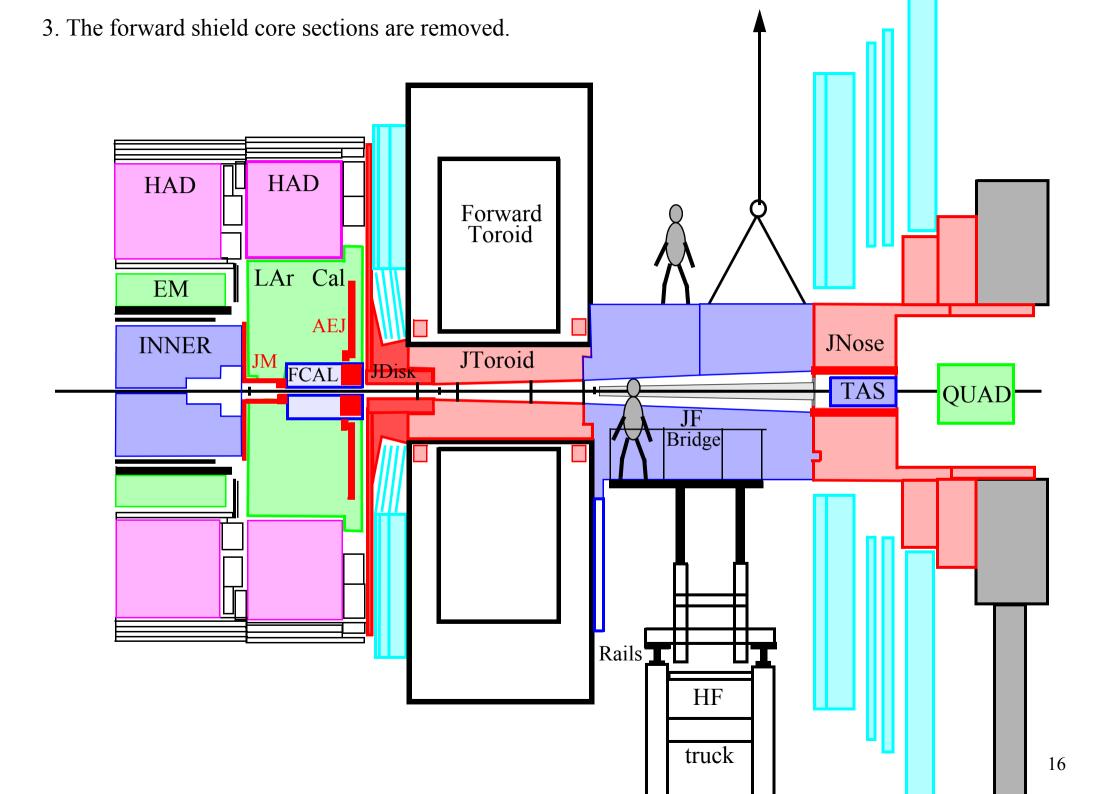
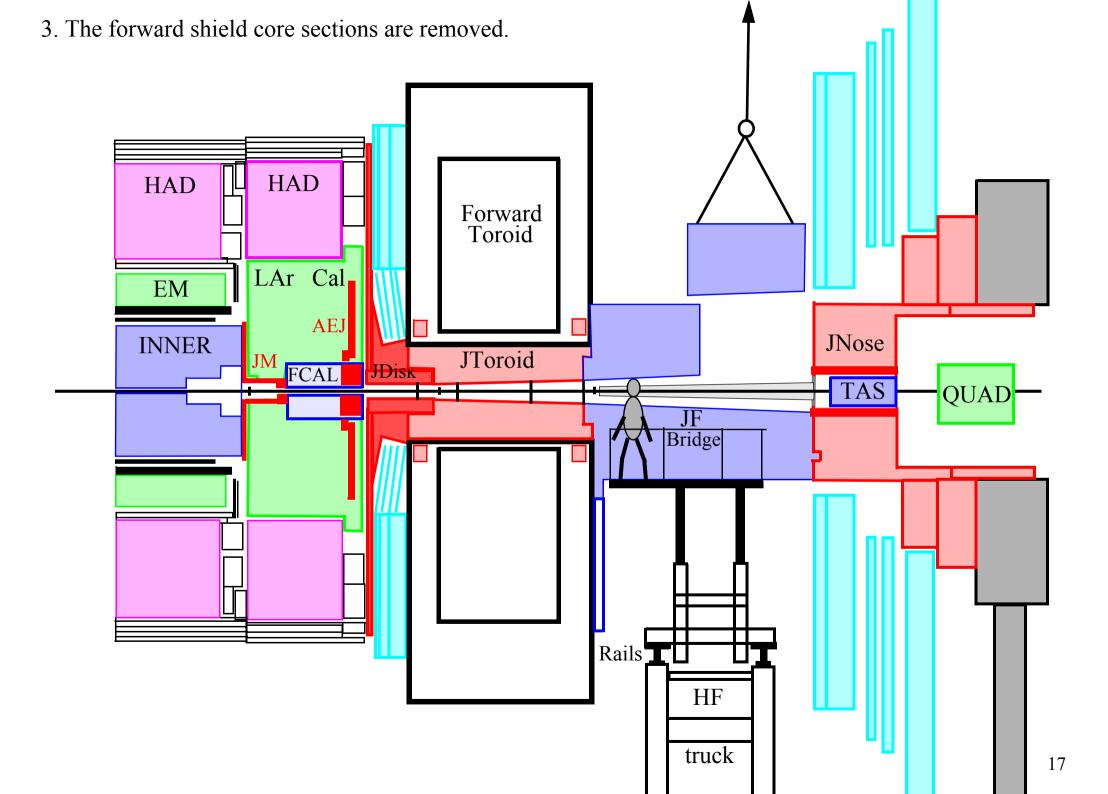
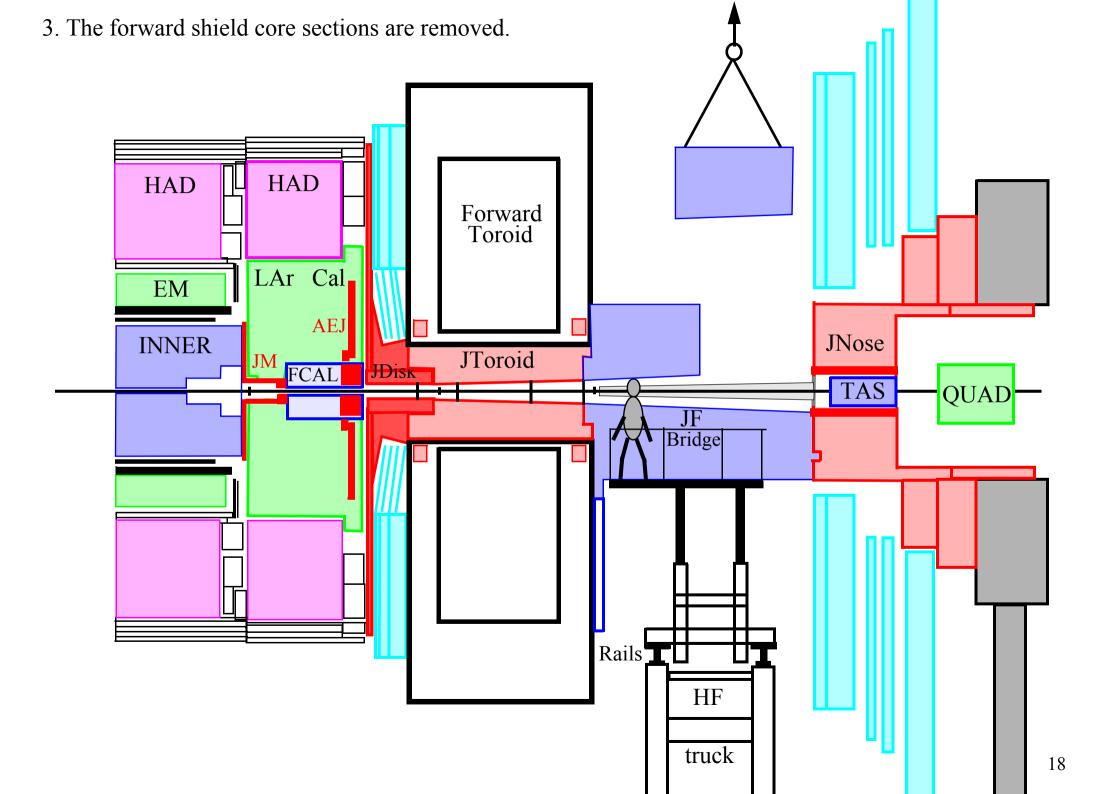
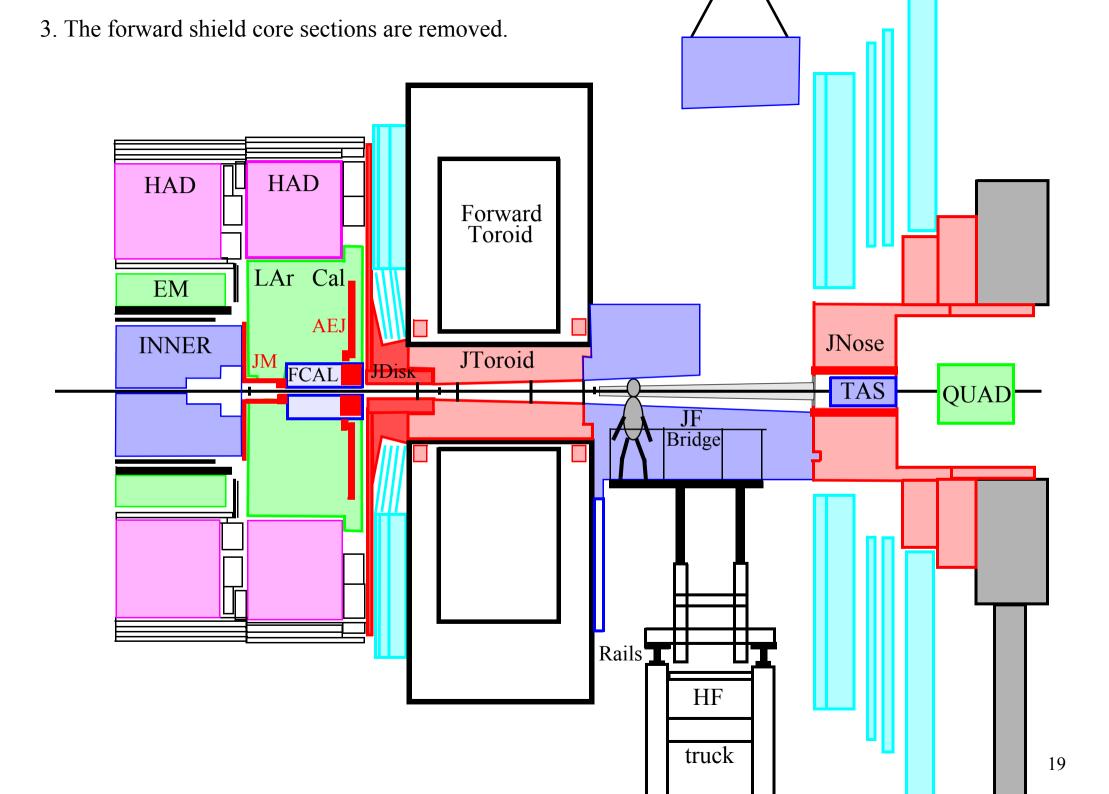


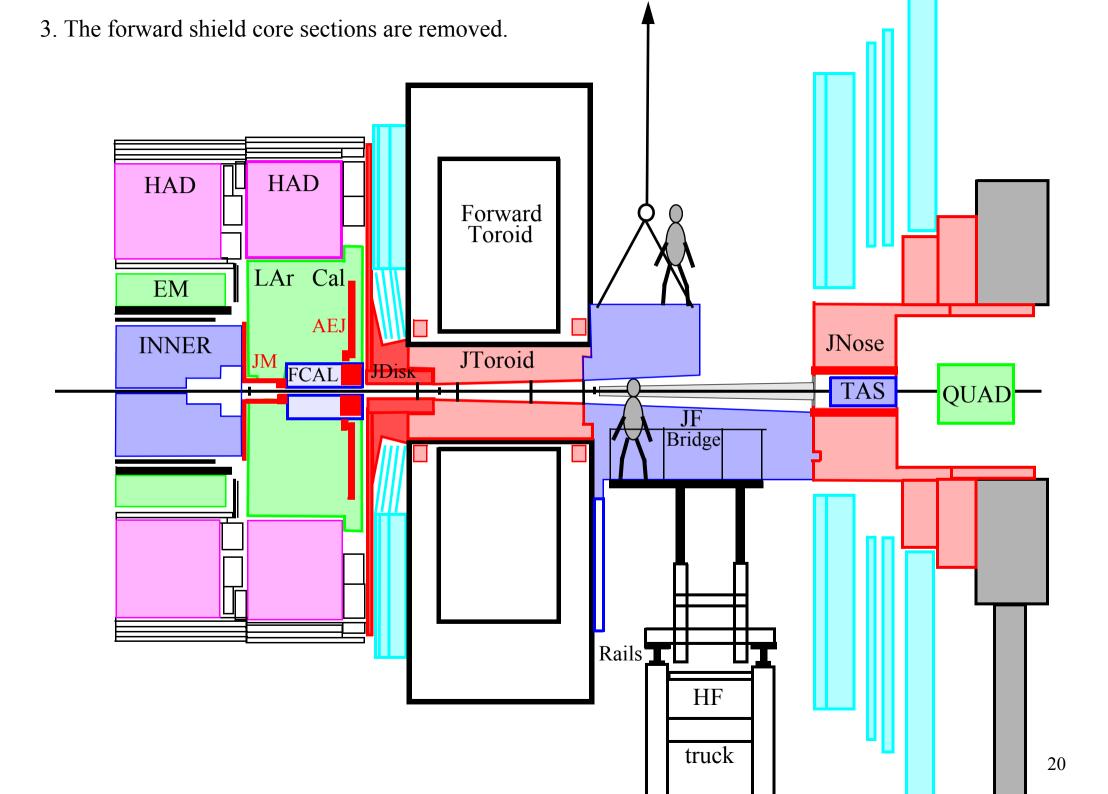
2. The large muon wheel is moved forward. HAD HAD Π Forward Toroid LAr Cal EM AEJ INNER JToroid JM FCAL JDisк TAS QUAD



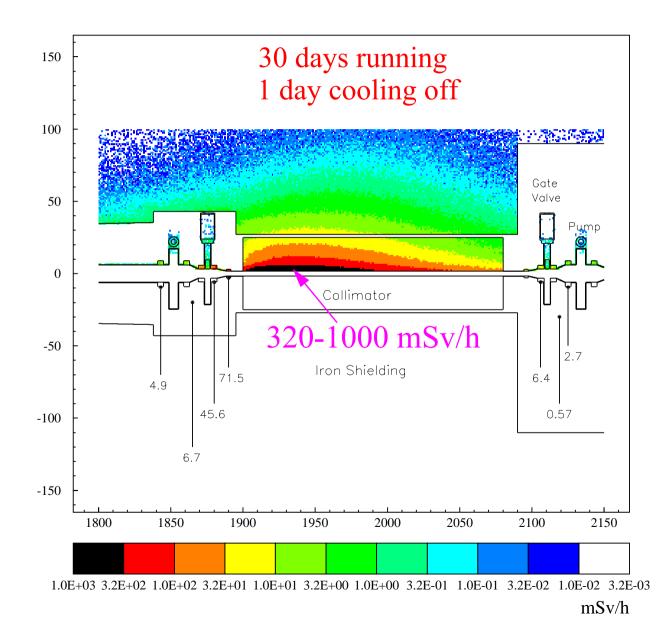




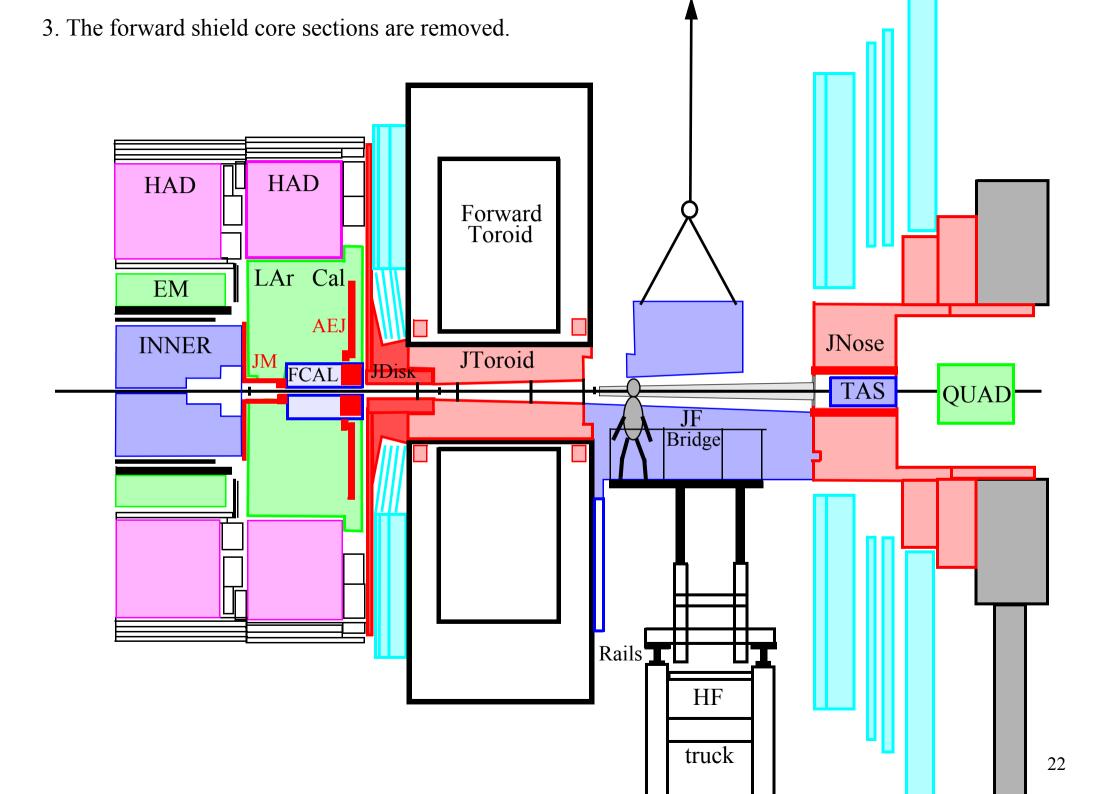


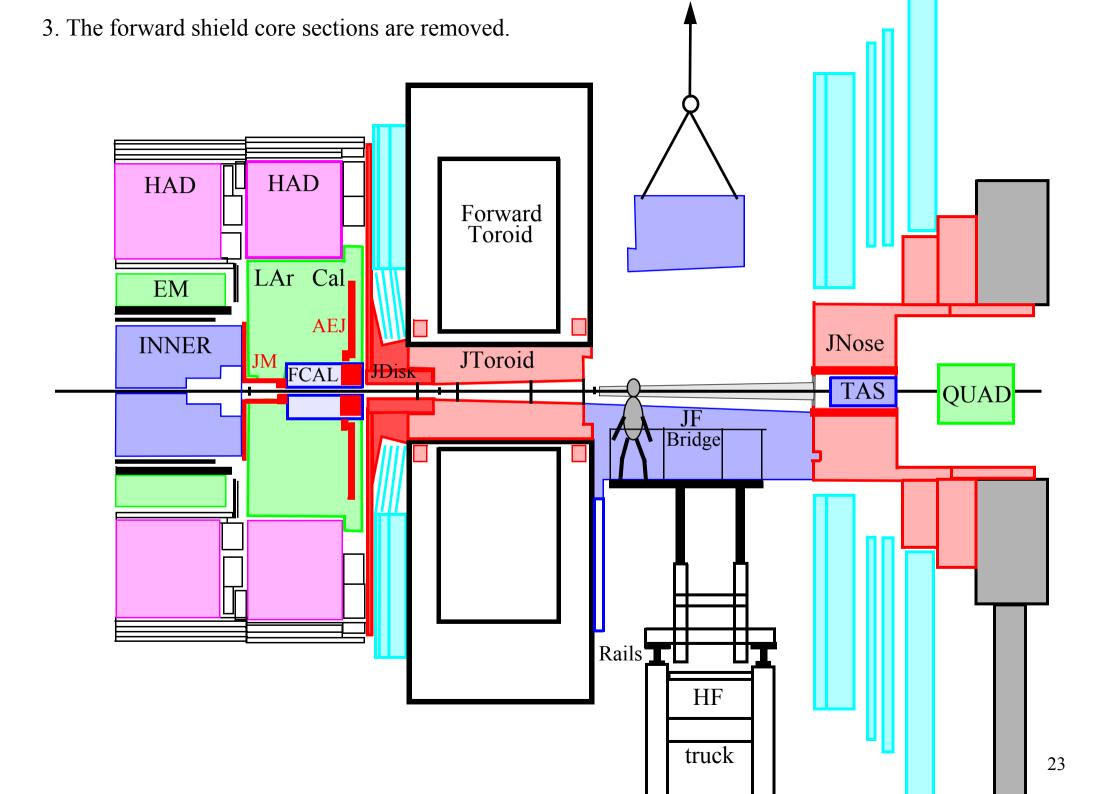


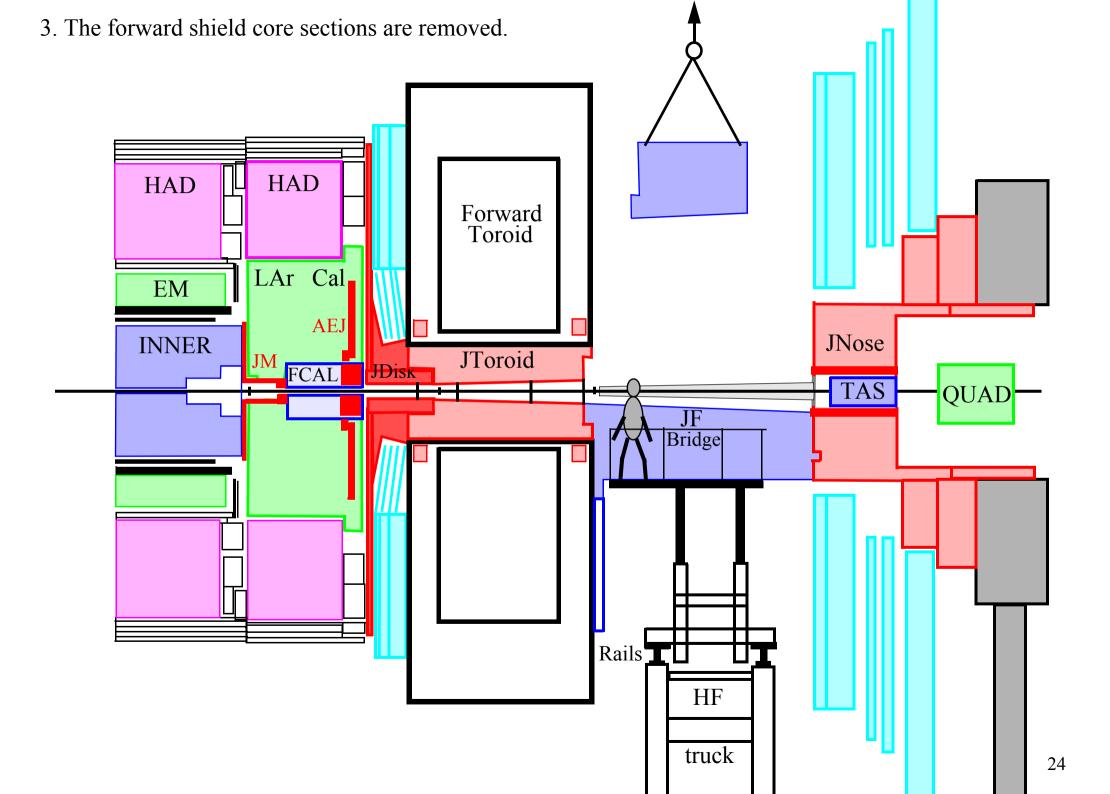
Dose rates in mSv/h around the TAS collimator (calculation by I. Dawson and G. Stevenson using omega factors)

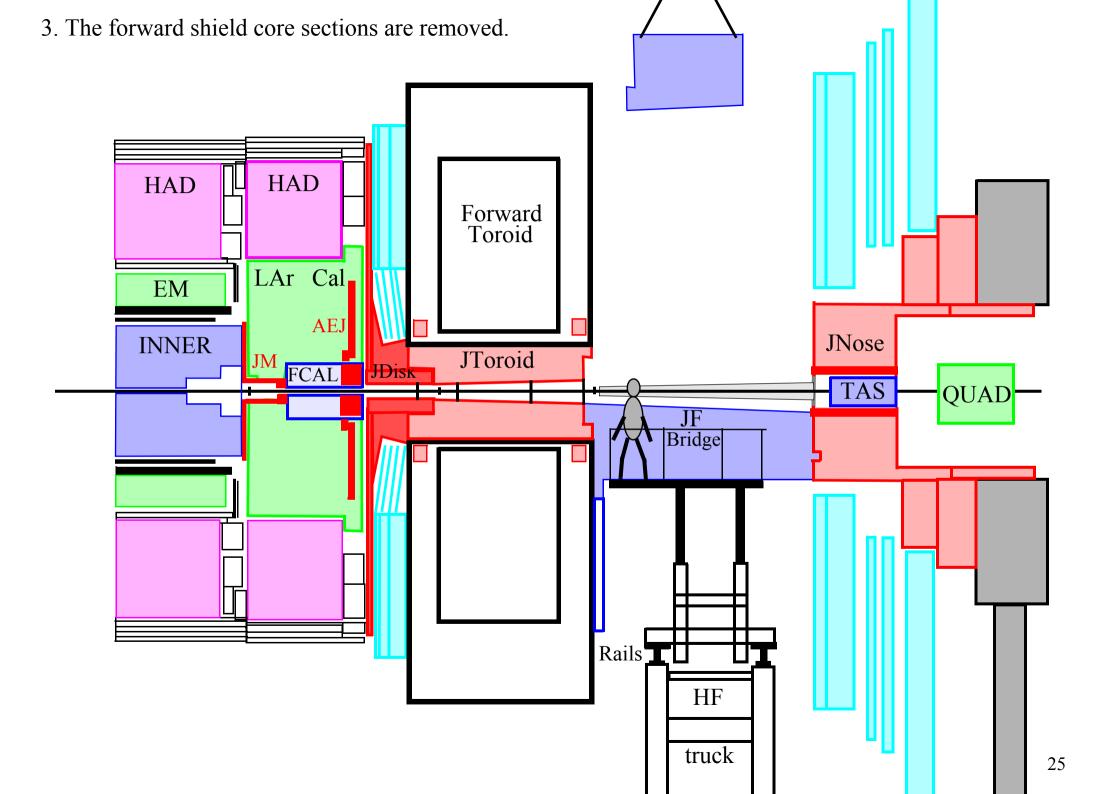


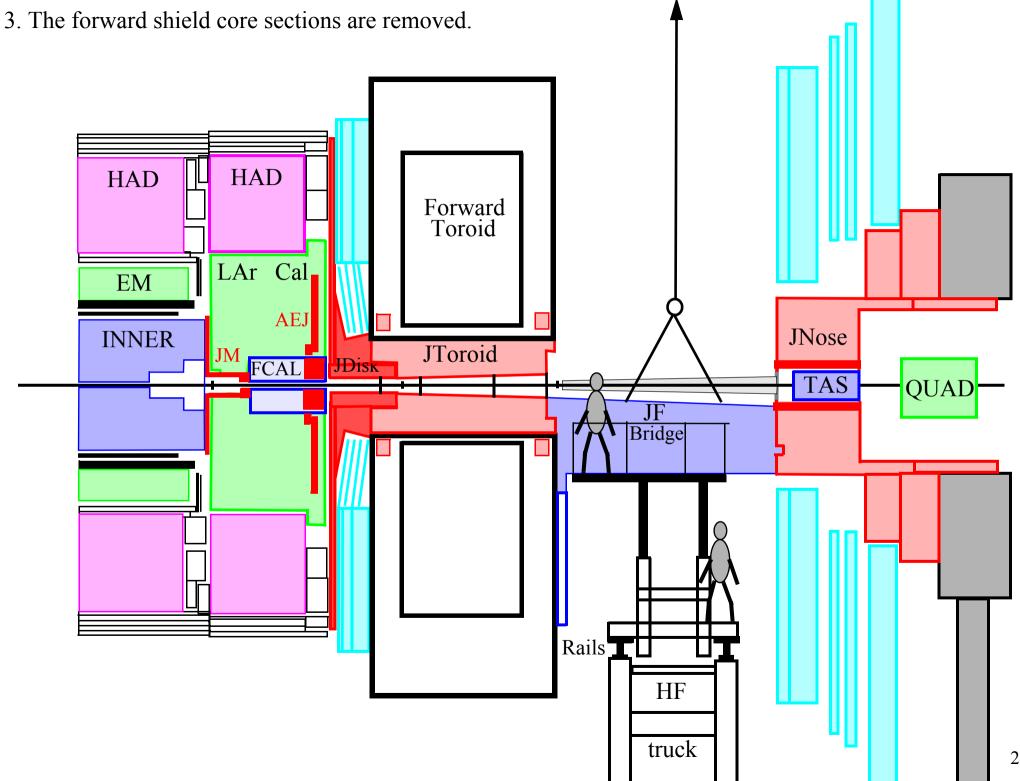
21



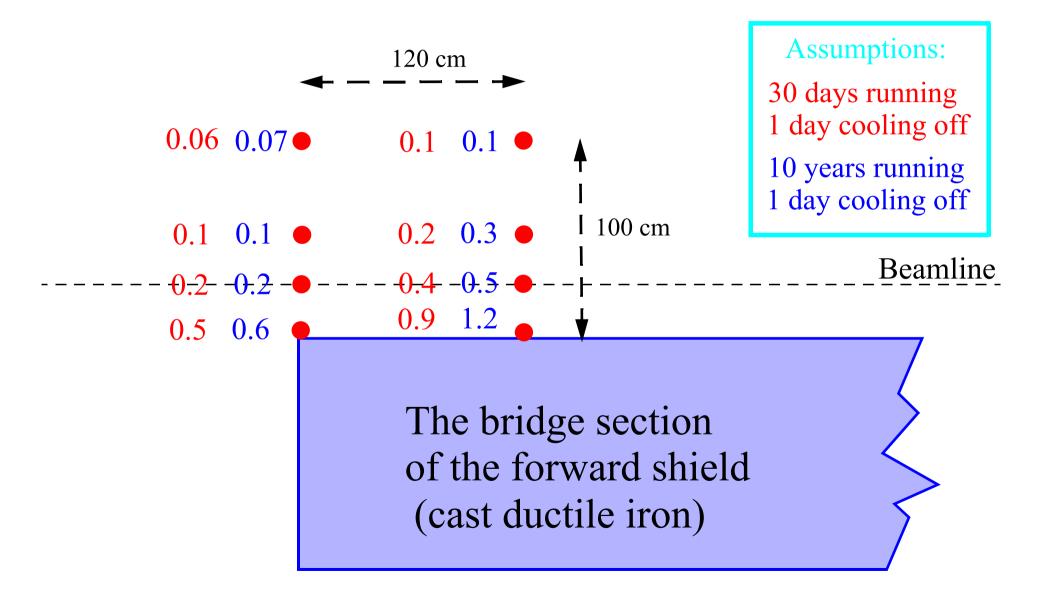


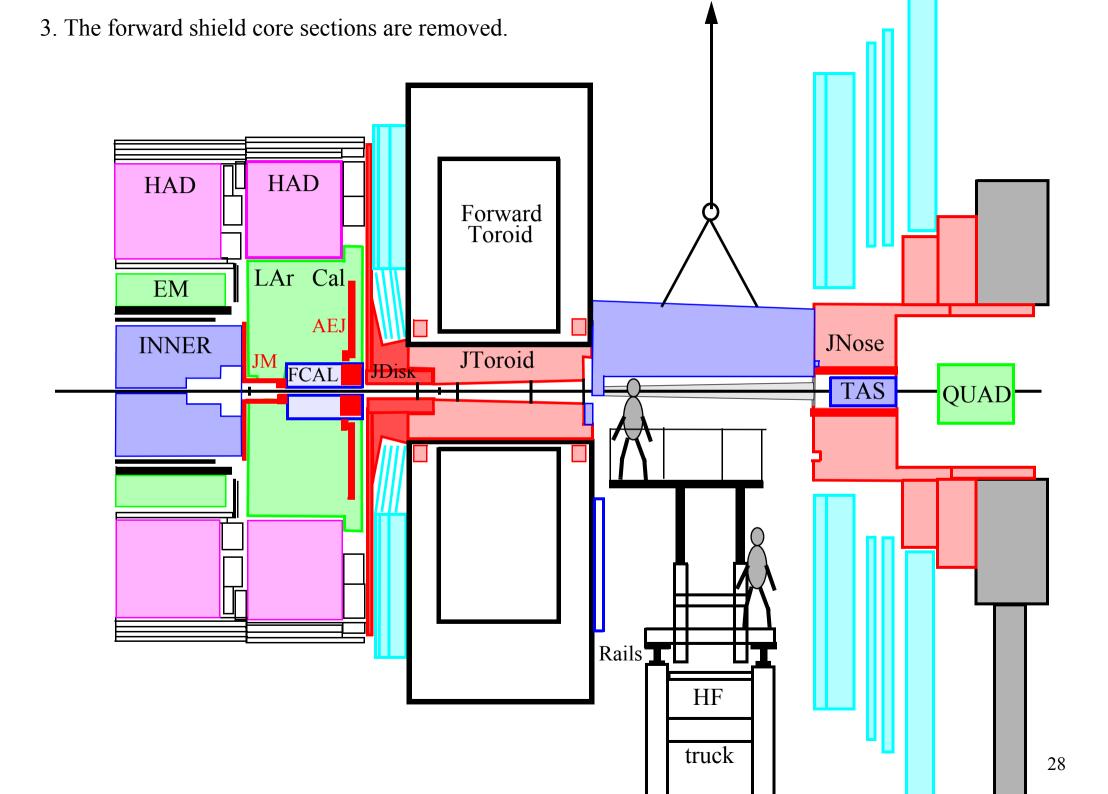


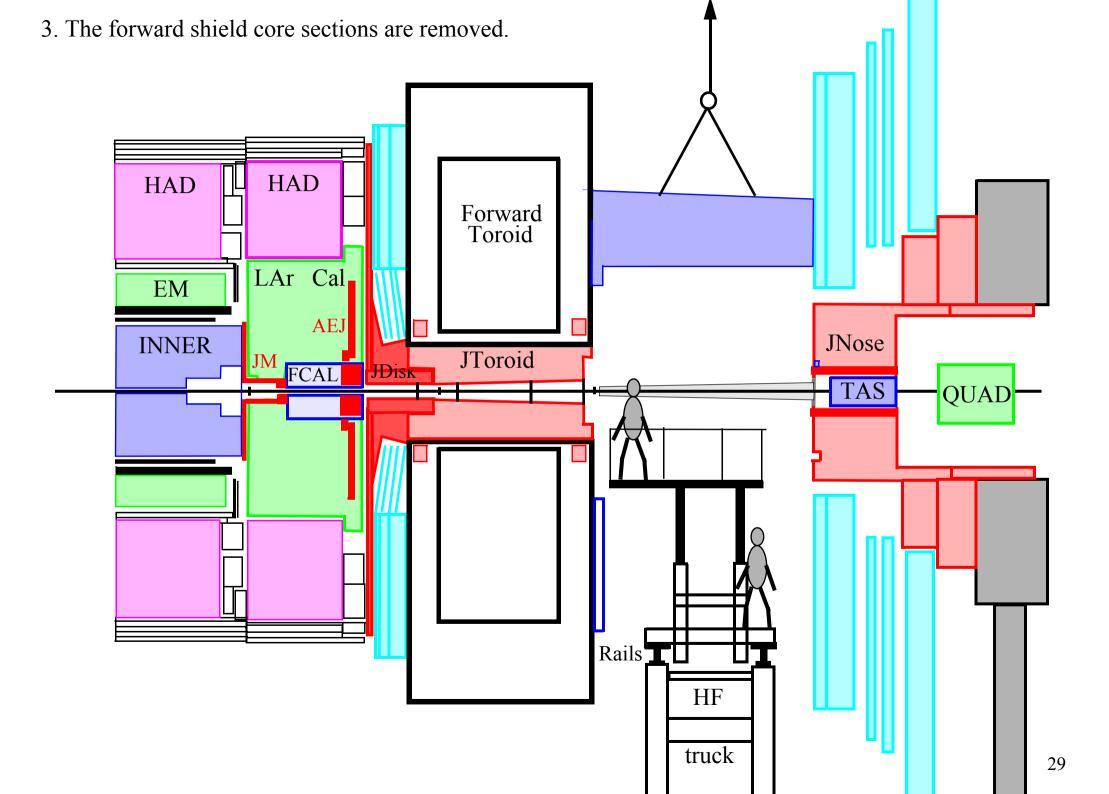


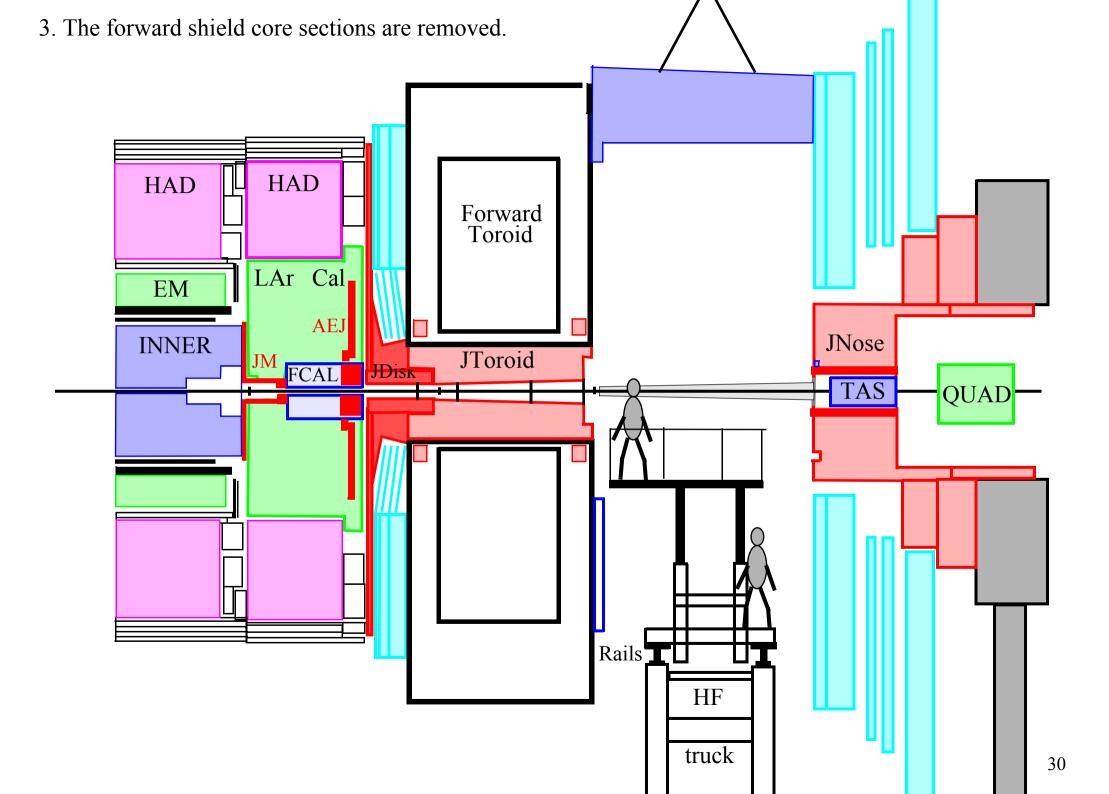


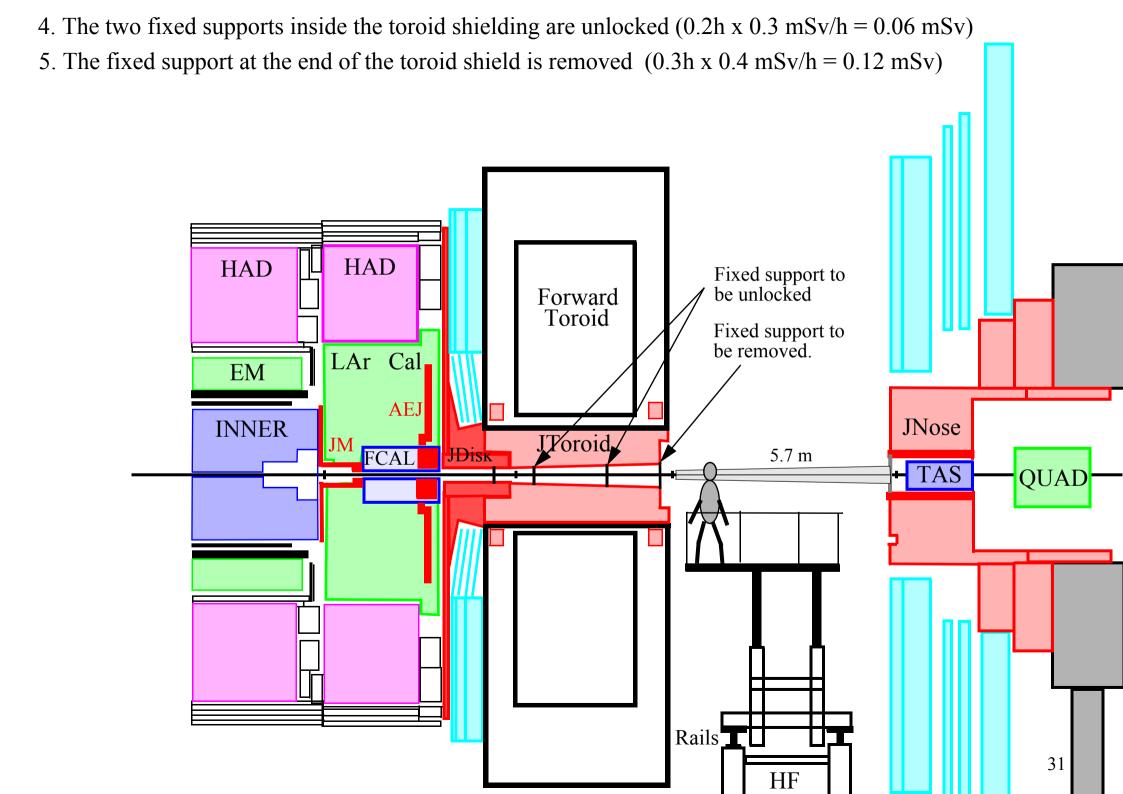
Dose rates in mSv/h around the bridge section of the forward shield. (Calculation by M. Morev)





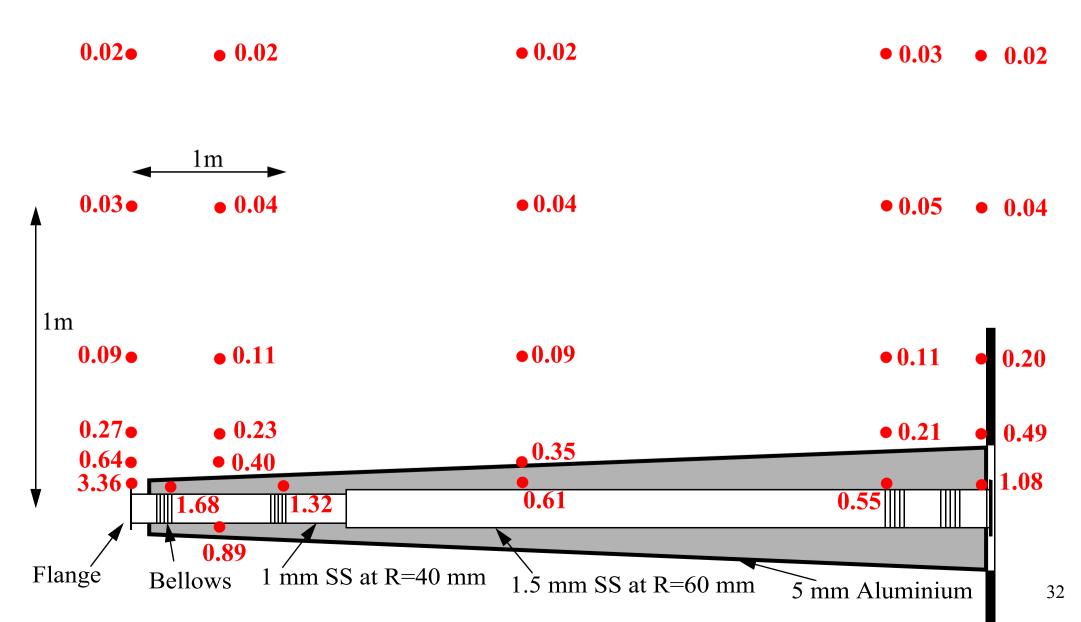


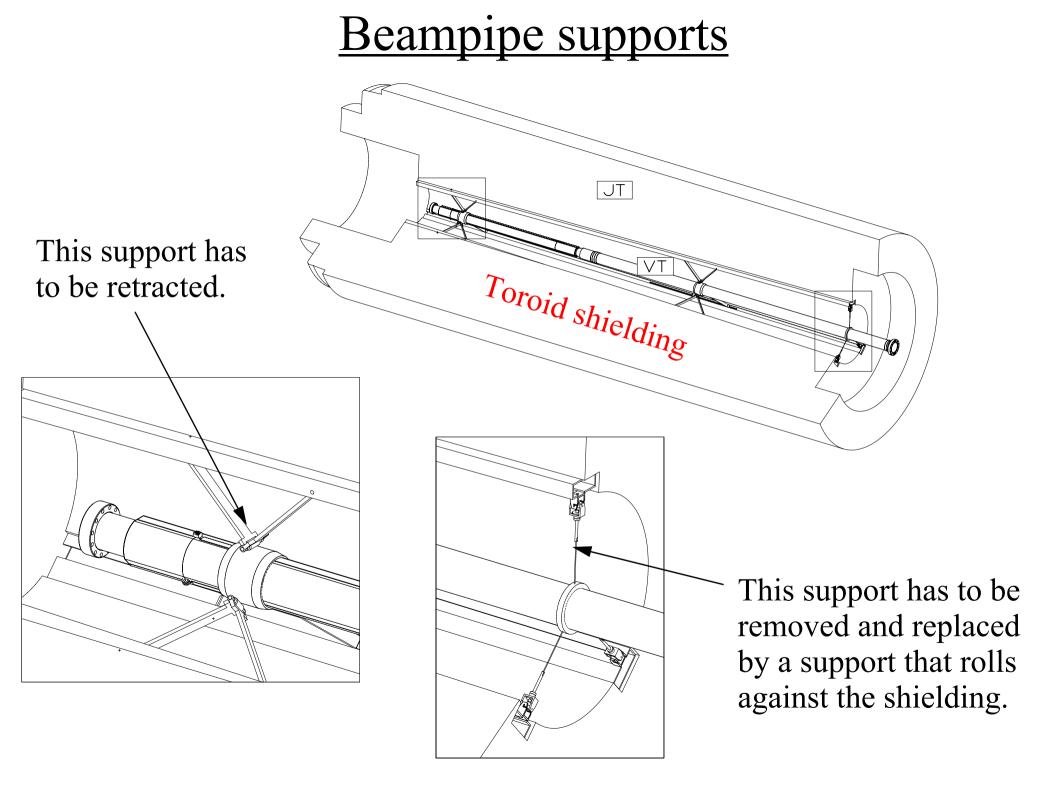




Dose rates in mSv/h after 100 days of running and 1 day of cooling (M. Morev et al.)

Dose rates from only the VJ beampipe





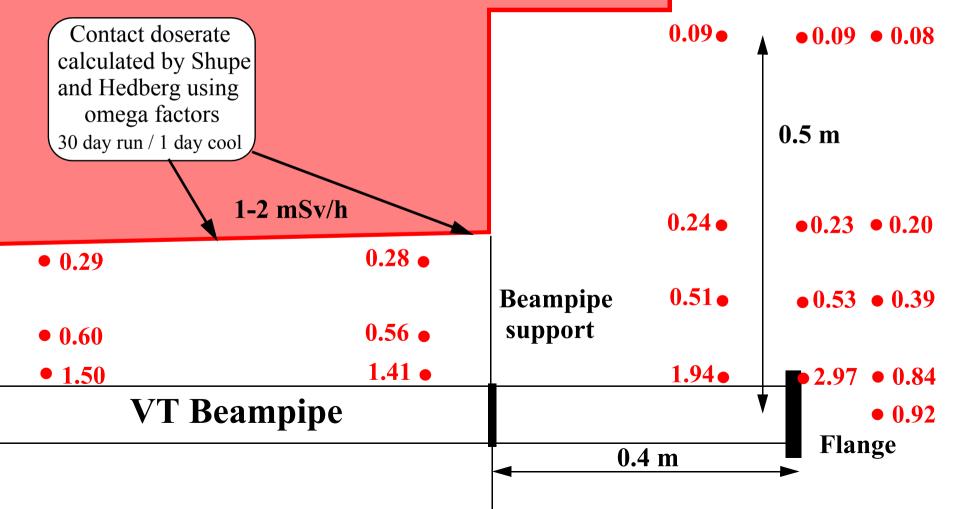
3

 $1 \cup \cup \cup$

TOROID SHIELDING

Dose rate in mSv/h from only the VT beampipe:

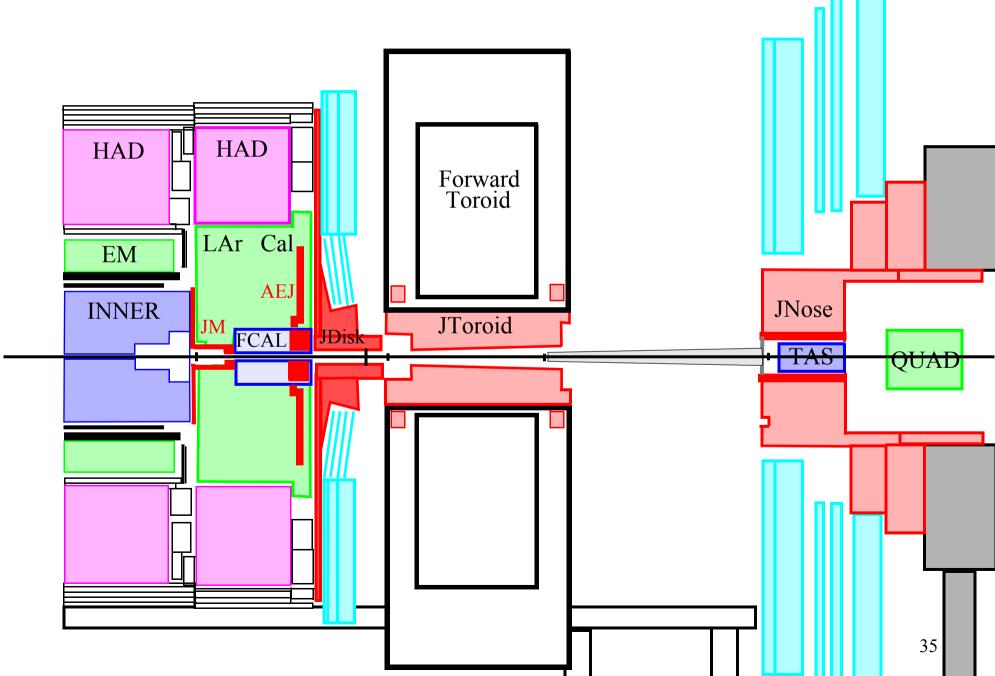
(100 day running, 1 day cooling) (calculation by M. Morev)



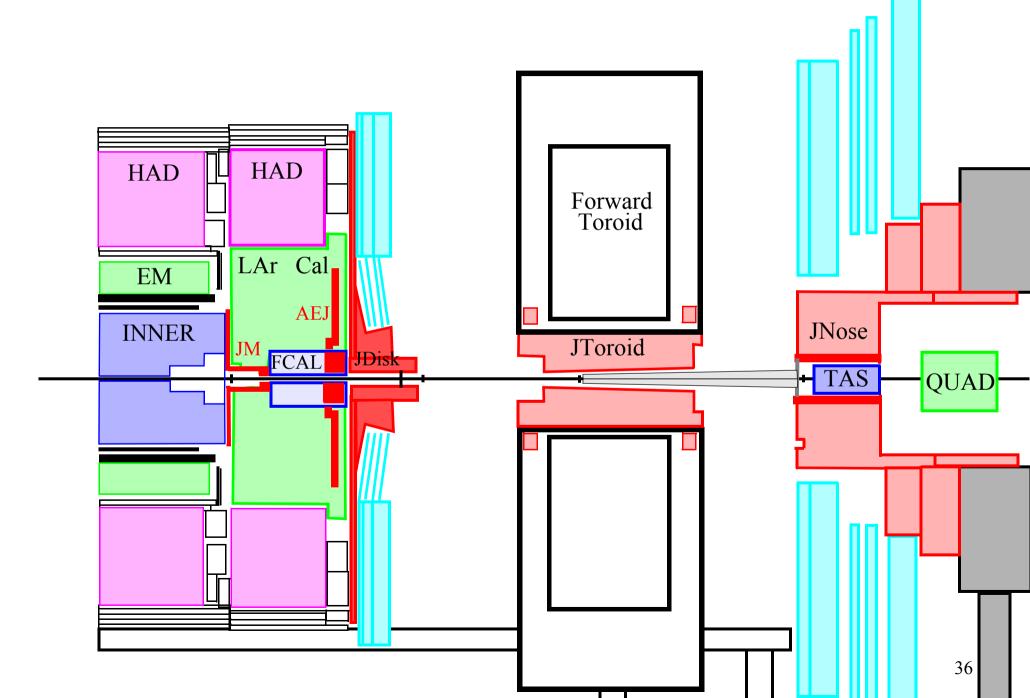
6. The HF platform is removed.

7. The HF truck is roated 90 degrees.

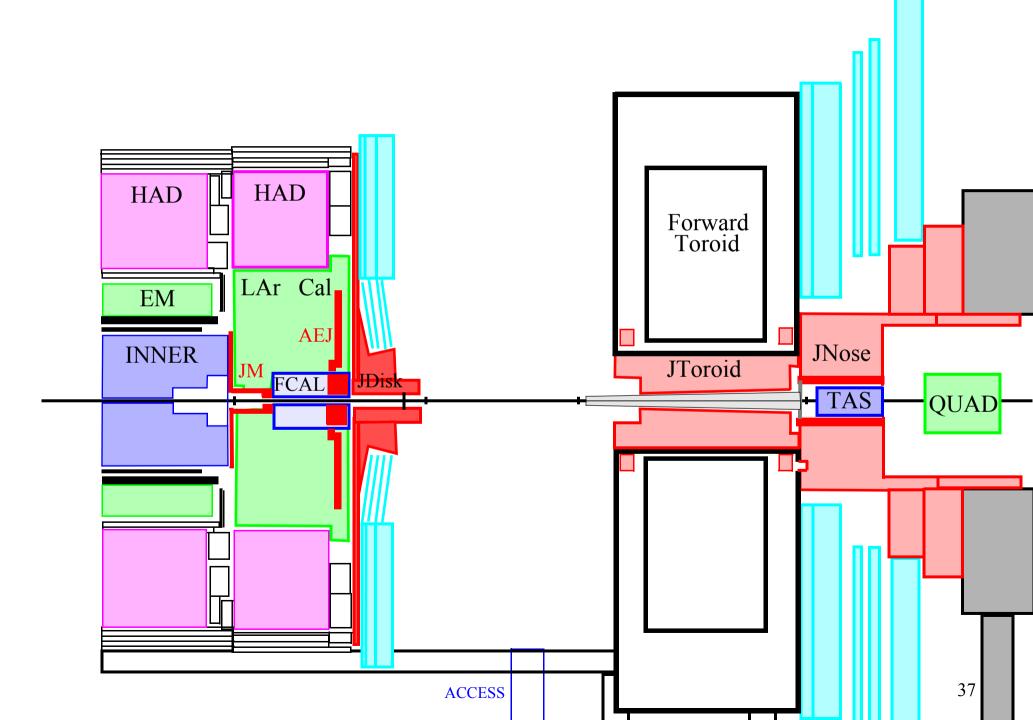
8. The HF truck is rotated and the endcap toroid is moved forward onto it.



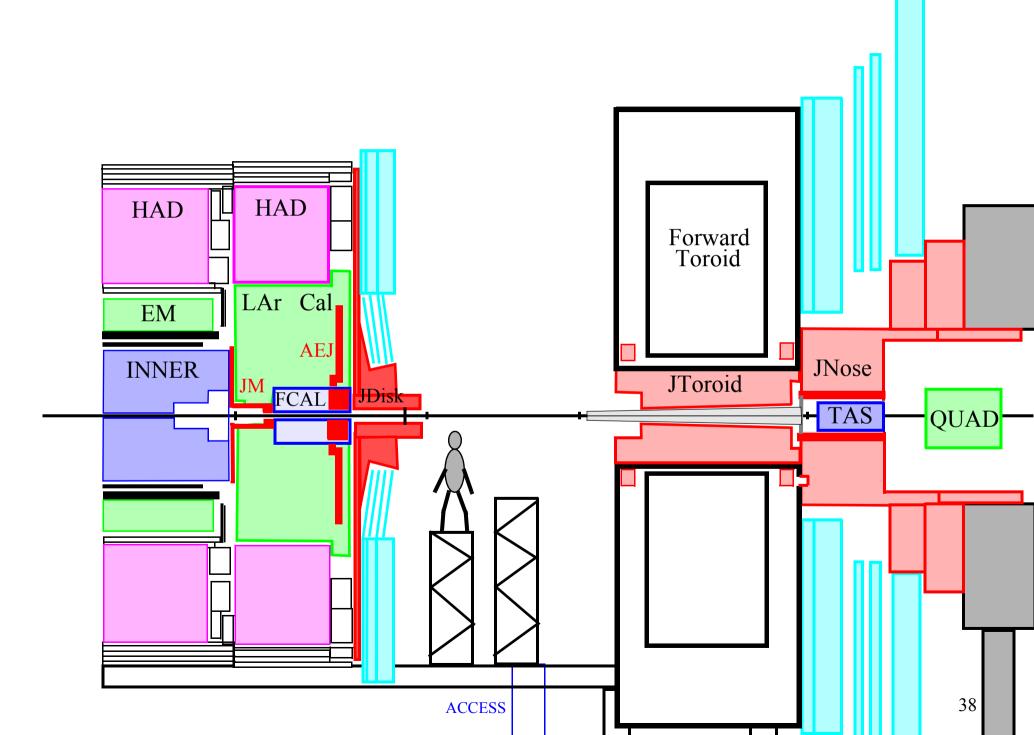
8. The endcap toroid is moved forward.



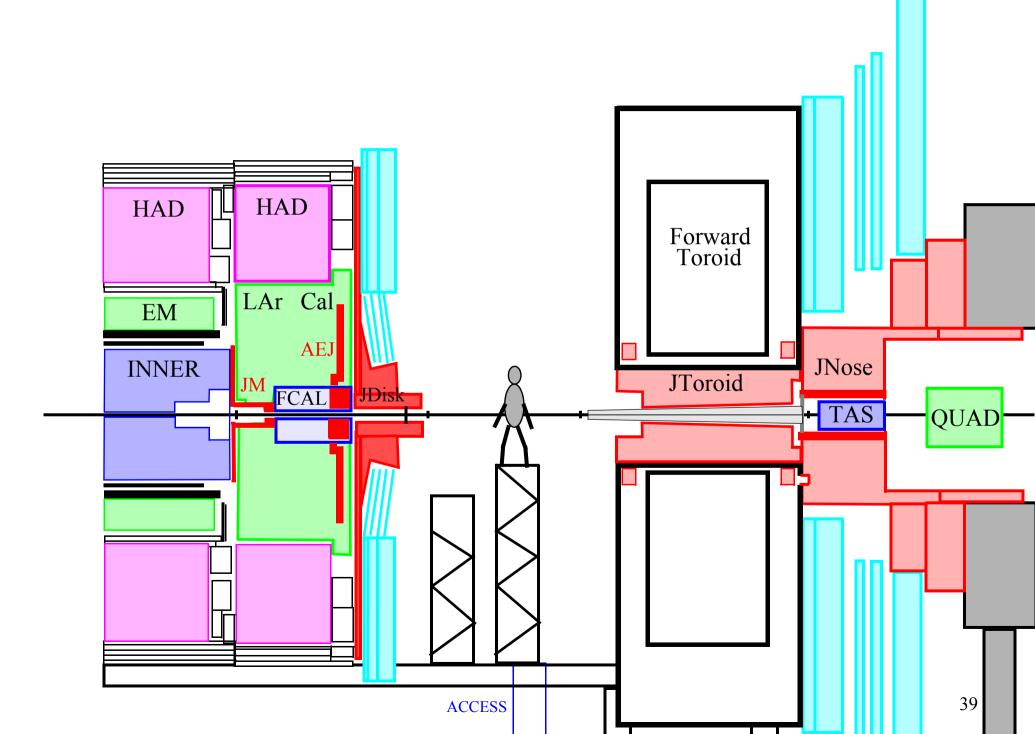
8. The endcap toroid is moved forward.



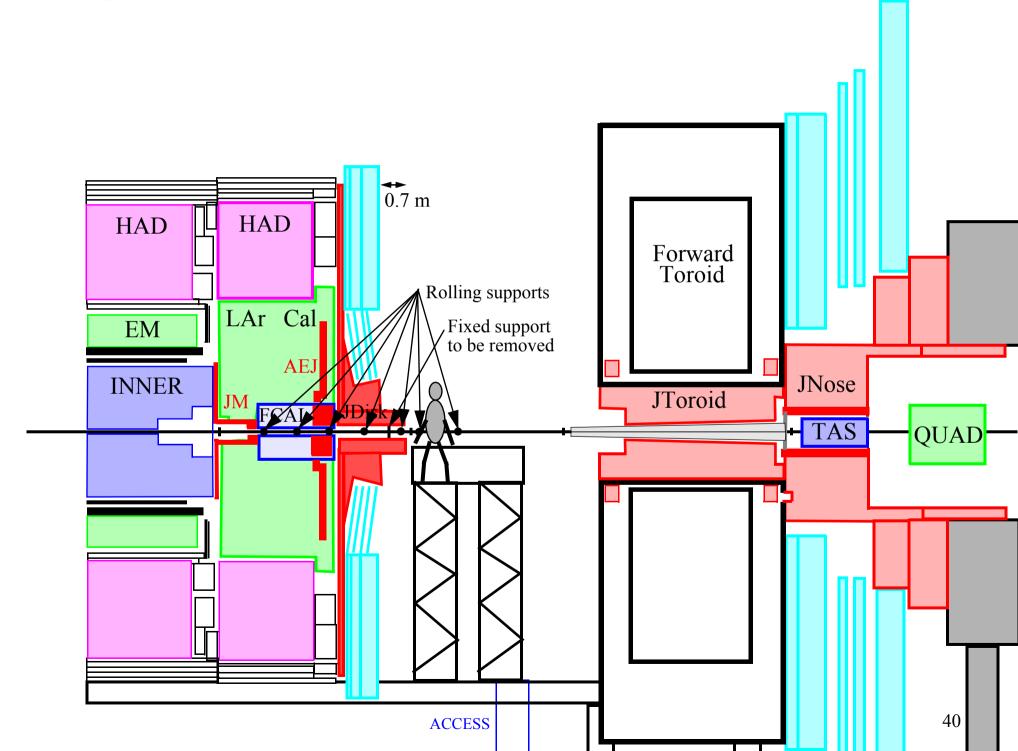
9. Scaffolding is beeing built.



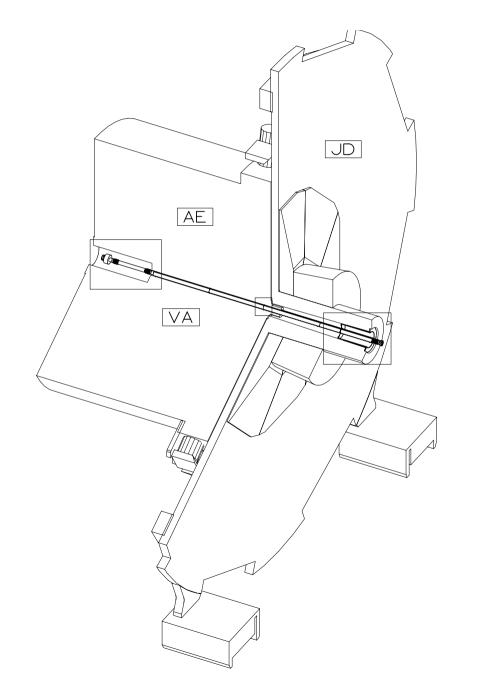
9. Scaffolding is beeing built.

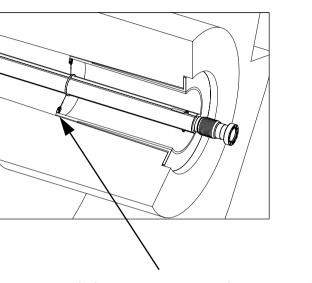


10. The fixed support is removed $(0.2h \times 1.0mSv/h = 0.2 mSv)$

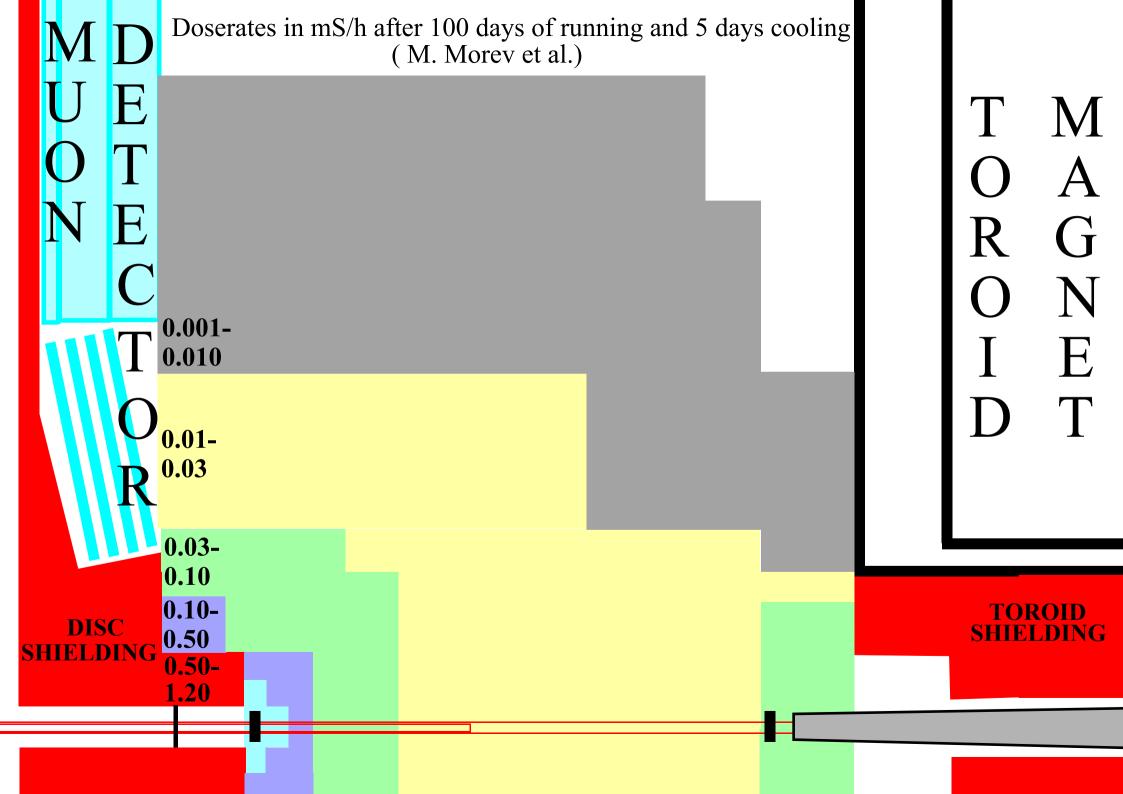


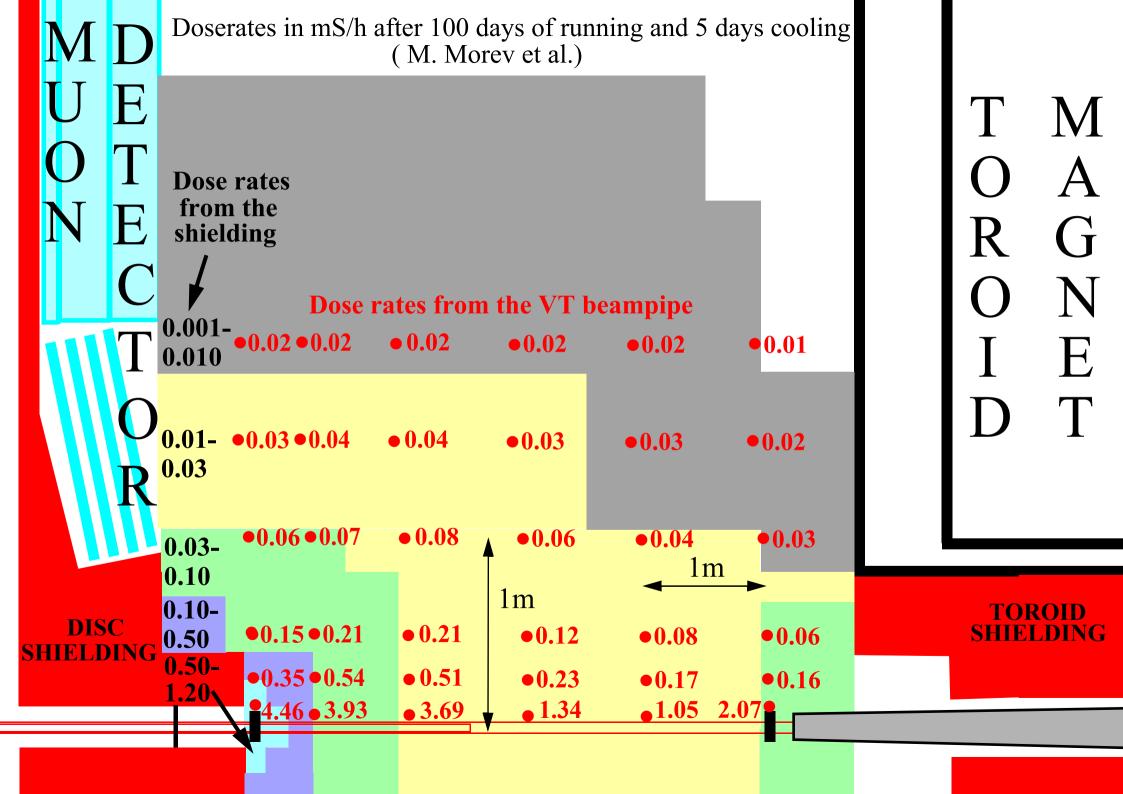
Beampipe supports



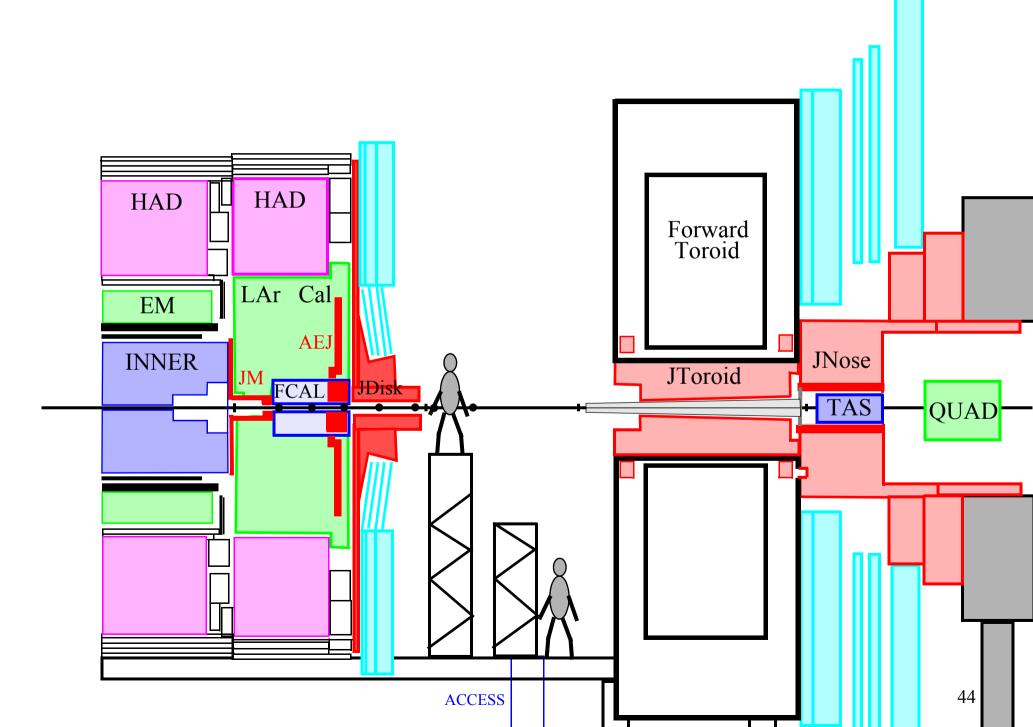


This support has to be removed.

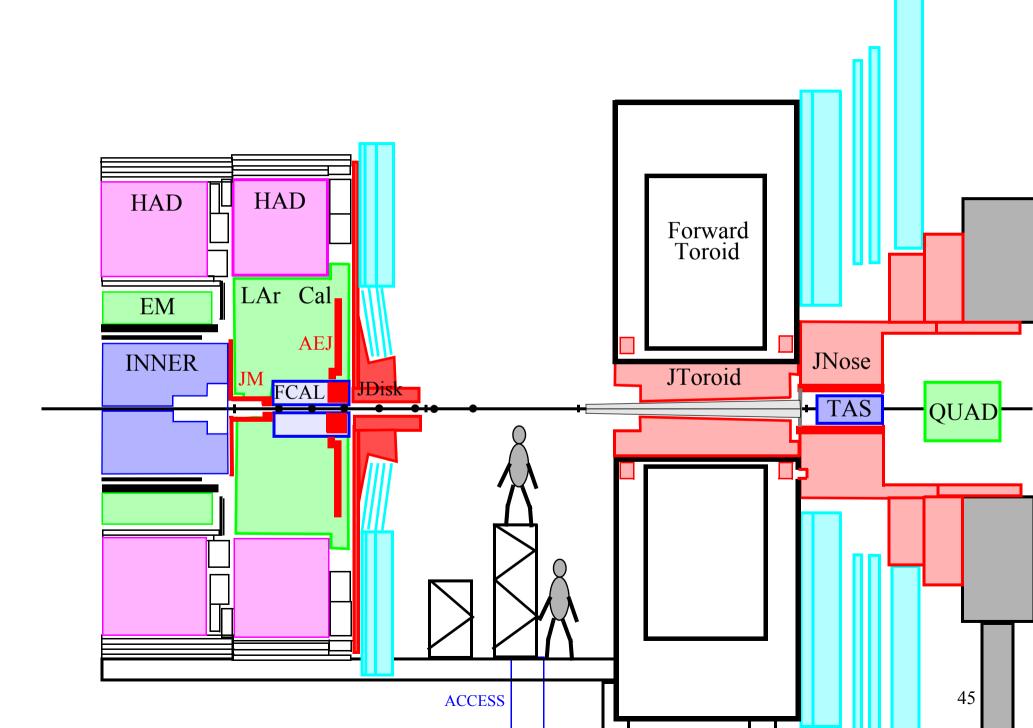




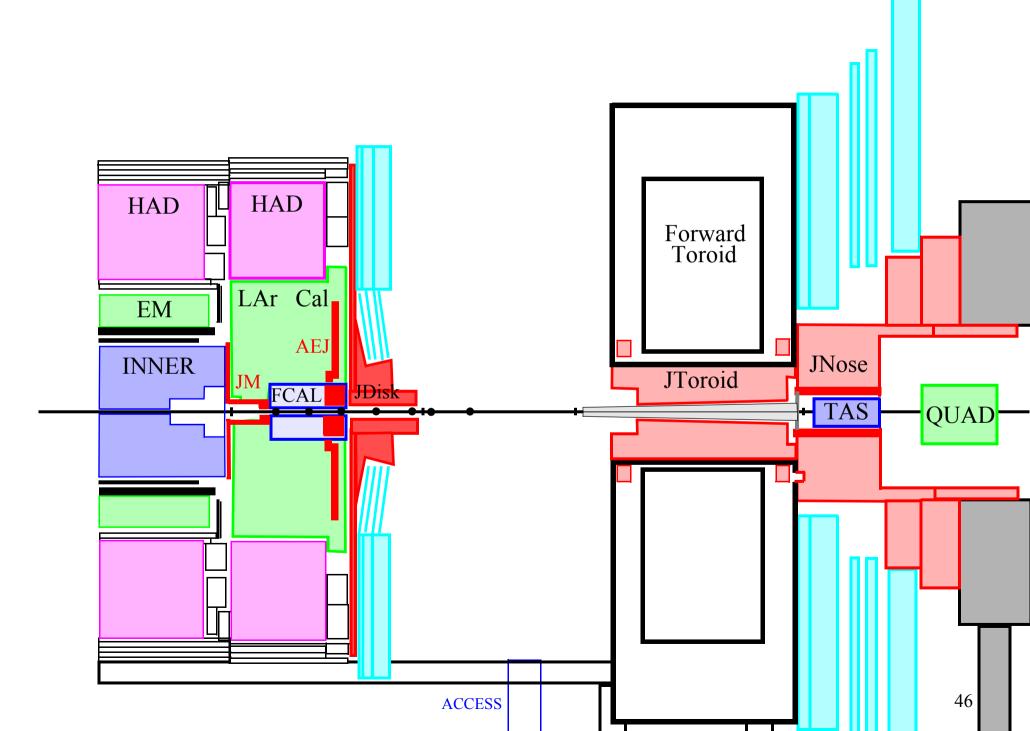
11. The scaffolding is being removed.



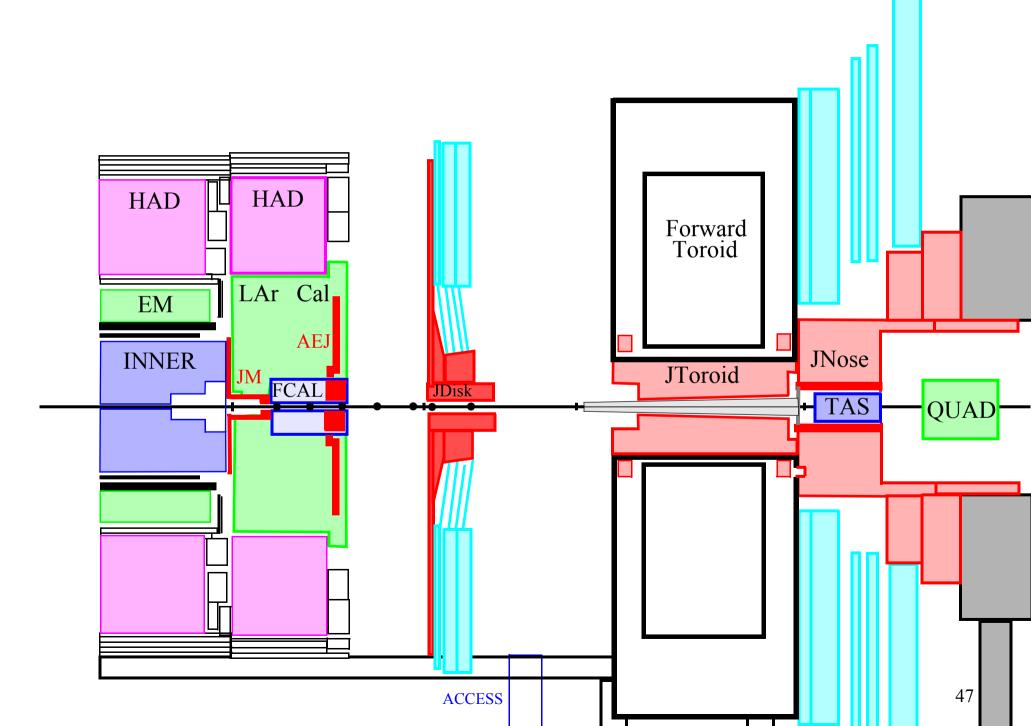
11. The scaffolding is being removed.



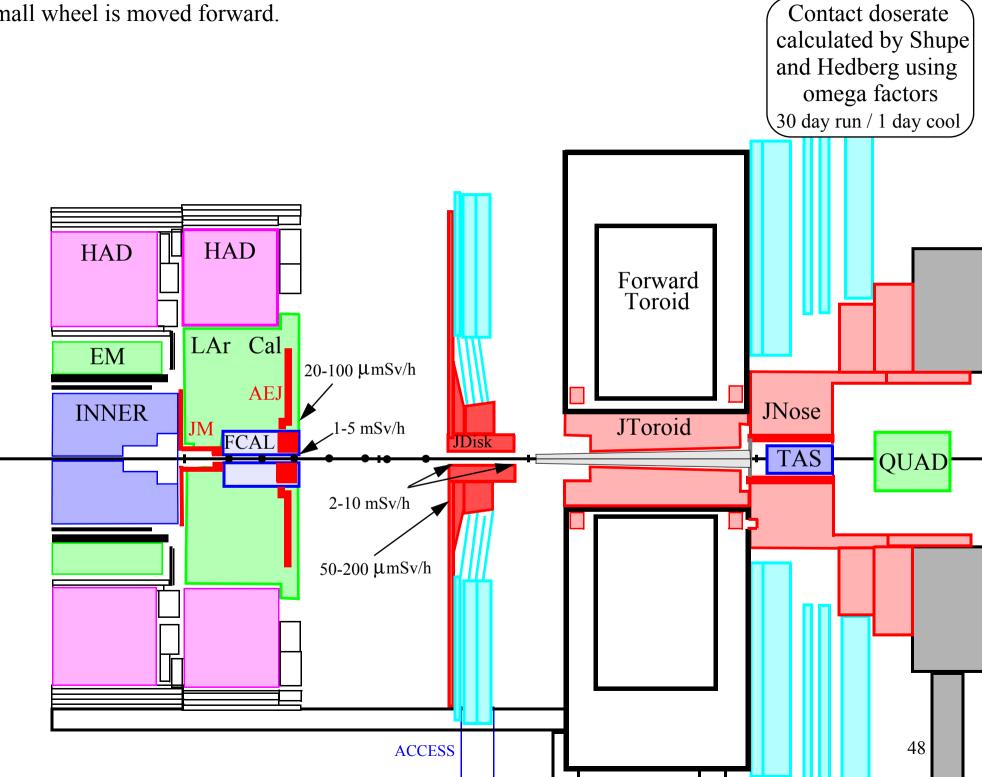
12. The small wheel is moved forward.



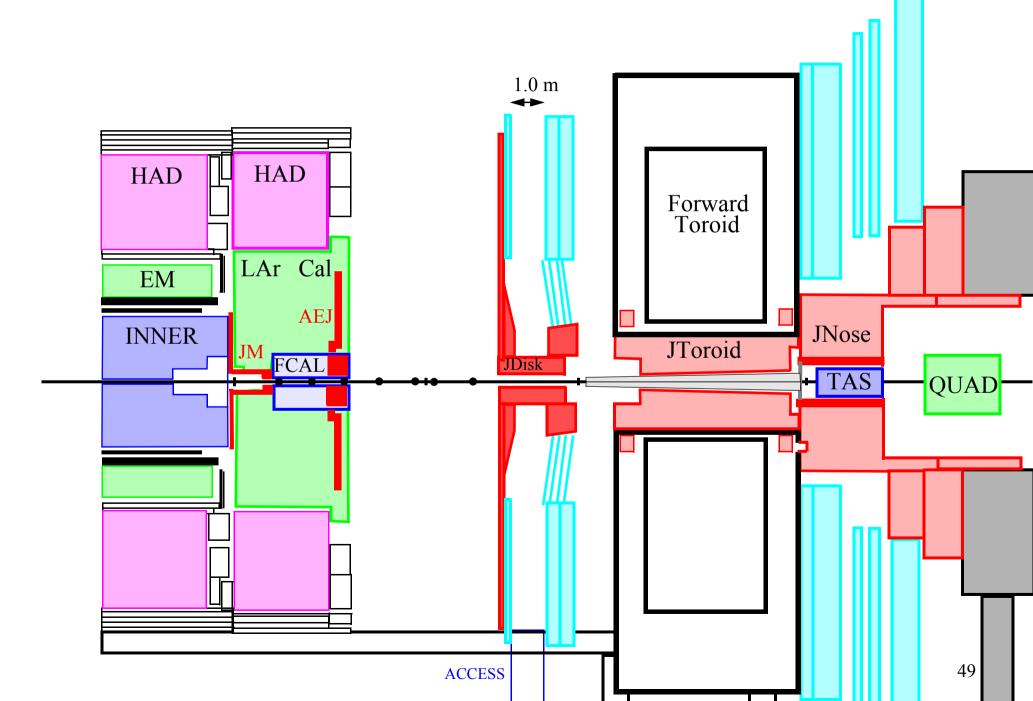
12. The small wheel is moved forward.



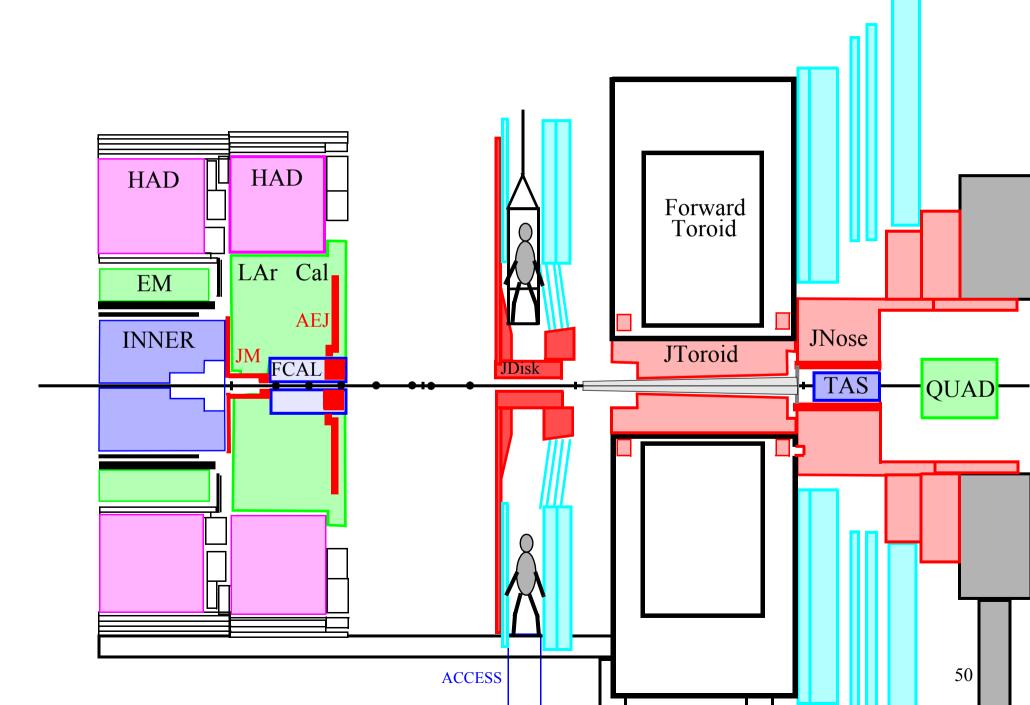
12. The small wheel is moved forward.



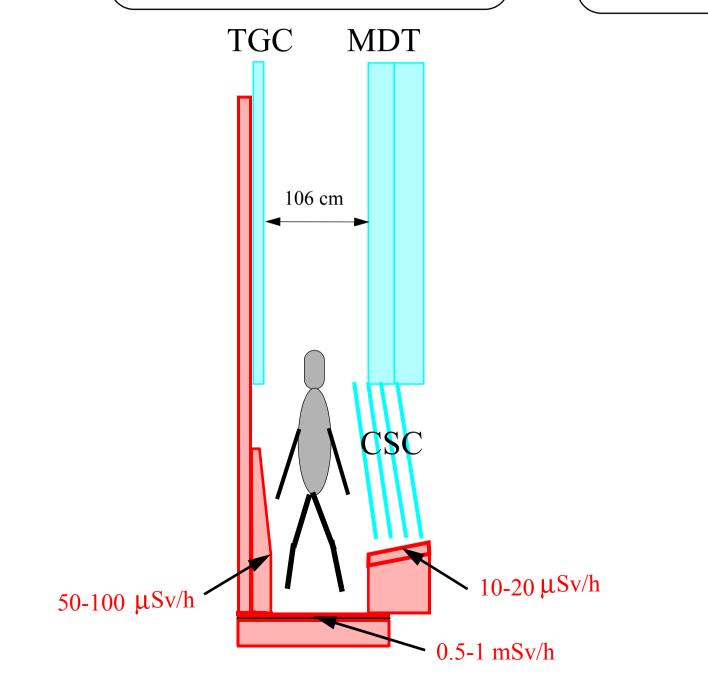
13. The small wheel is opened up.



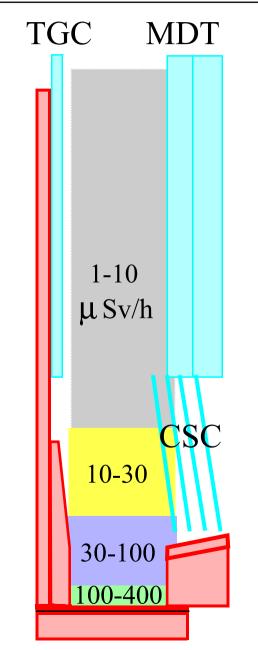
14. Maintenance of the muon detector



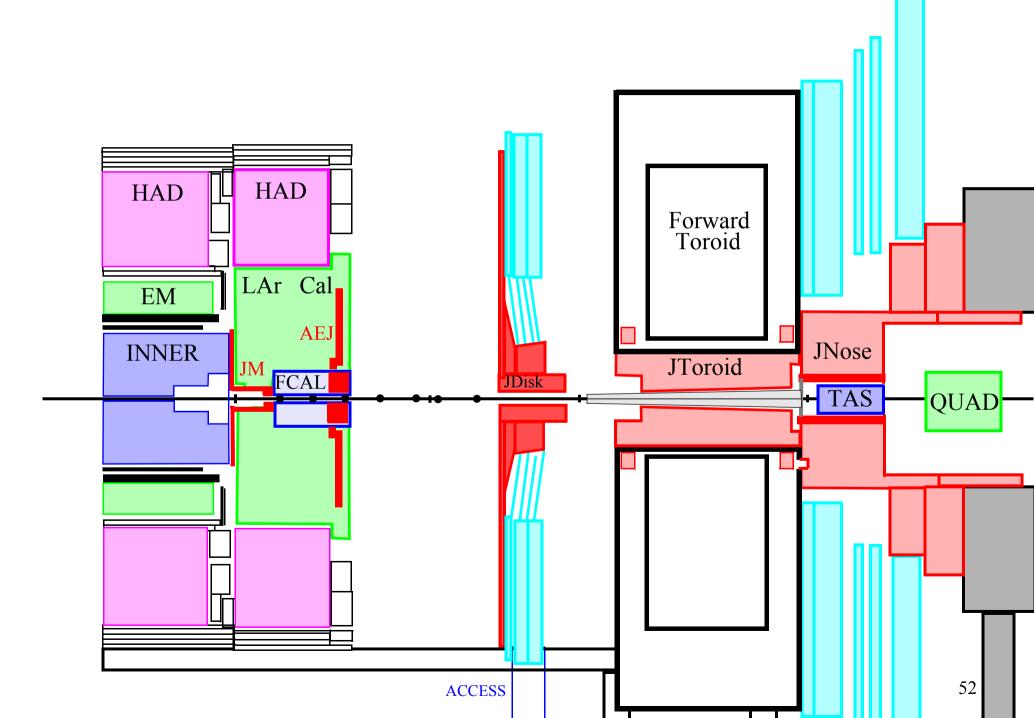
Contact doserate calculated by Shupe and Hedberg using omega factors. 30 day run / 1 day cooling



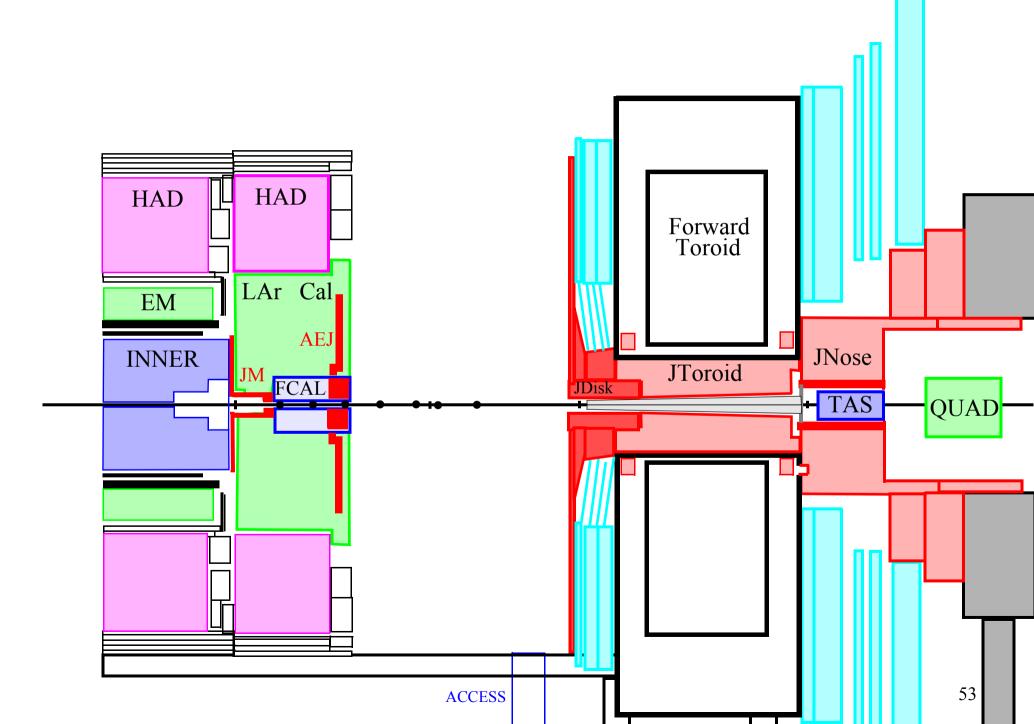
Doserates in the small wheel after 100 days of running and 5 days of cooling. Calculation by M. Morev.



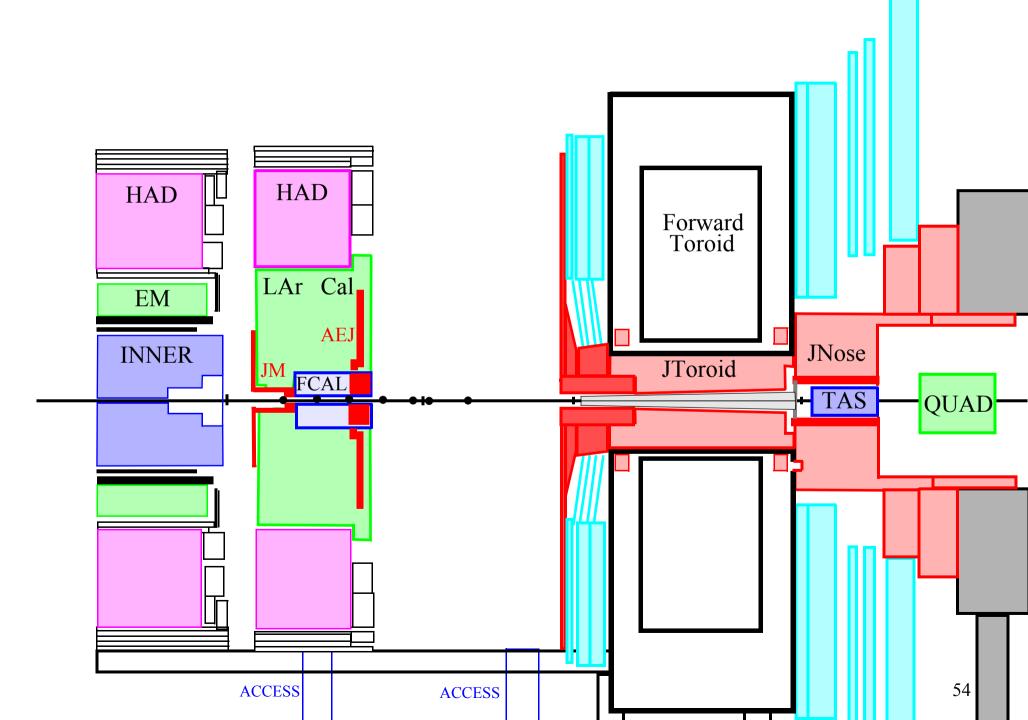
15. The small wheel is closed.



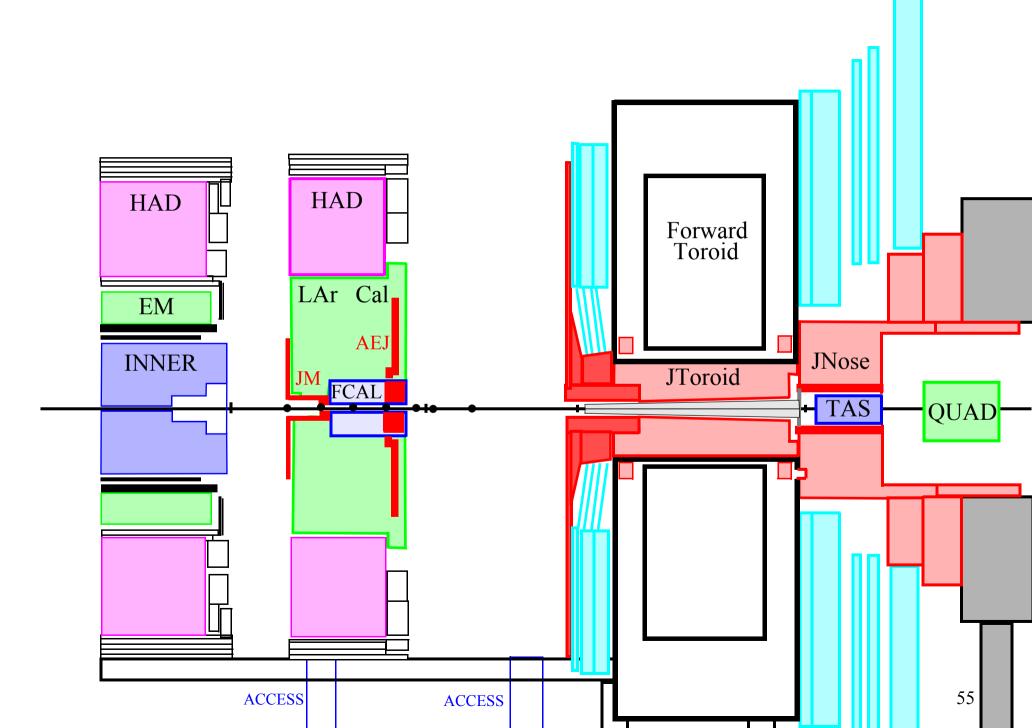
16. The small wheel is moved forward.



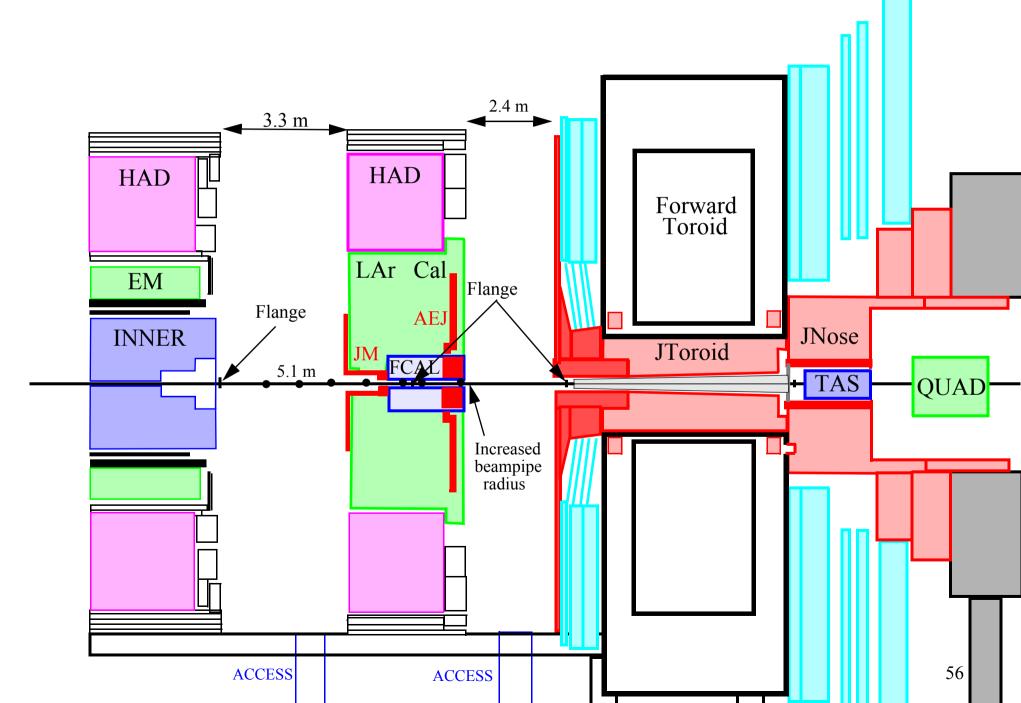
17. The endcap calorimeter is moved forward.



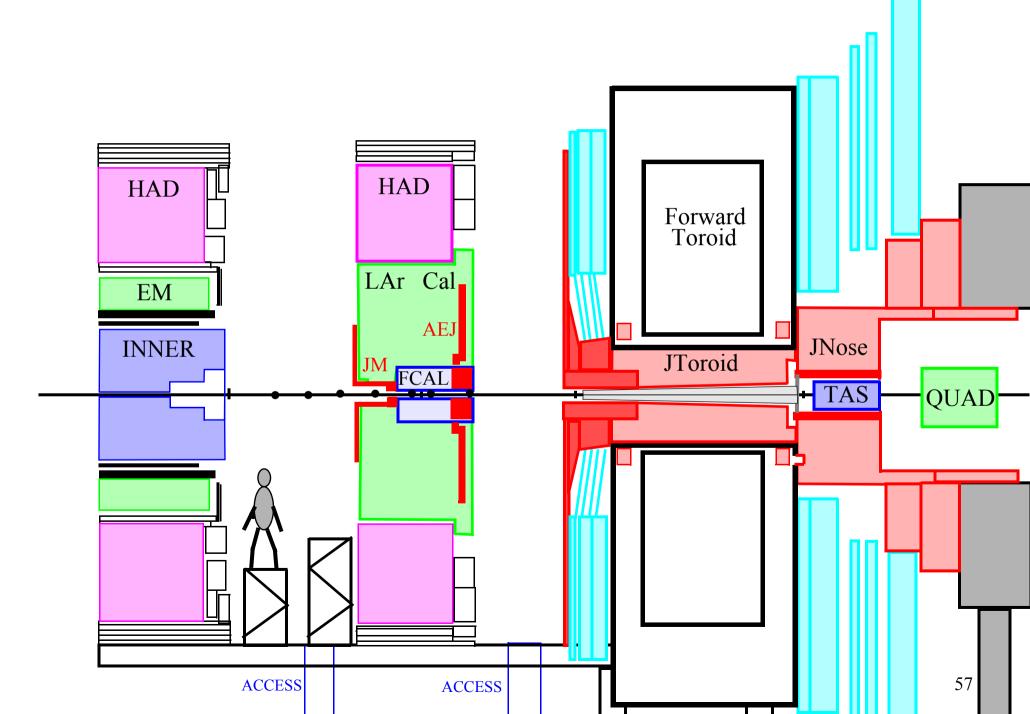
17. The endcap calorimeter is moved forward.



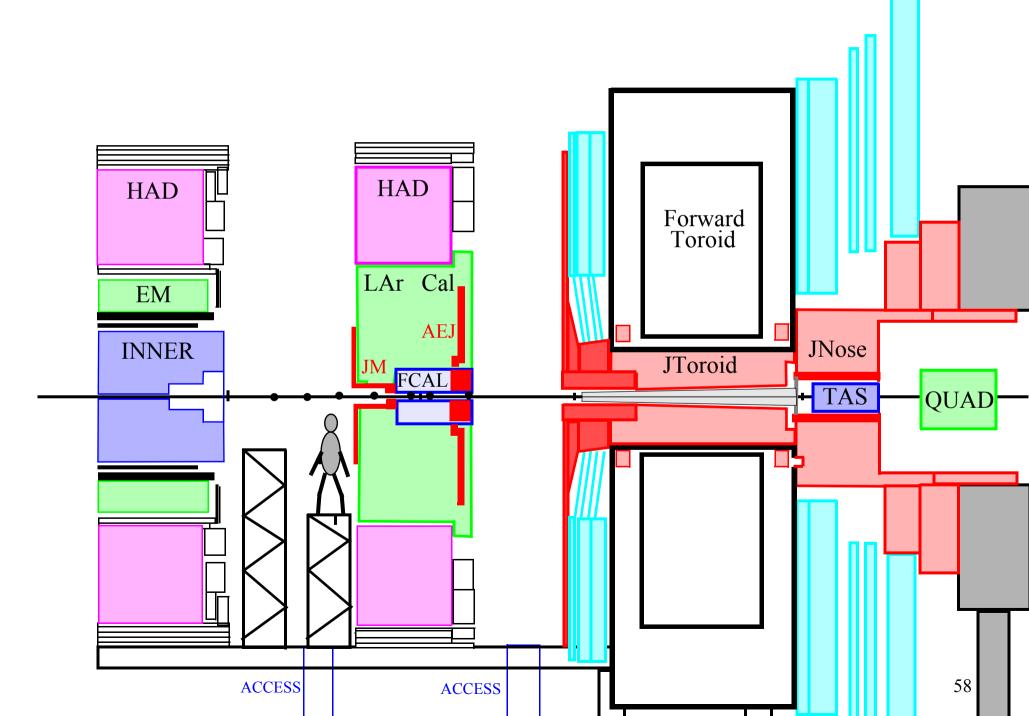
17. The endcap calorimeter is moved forward.



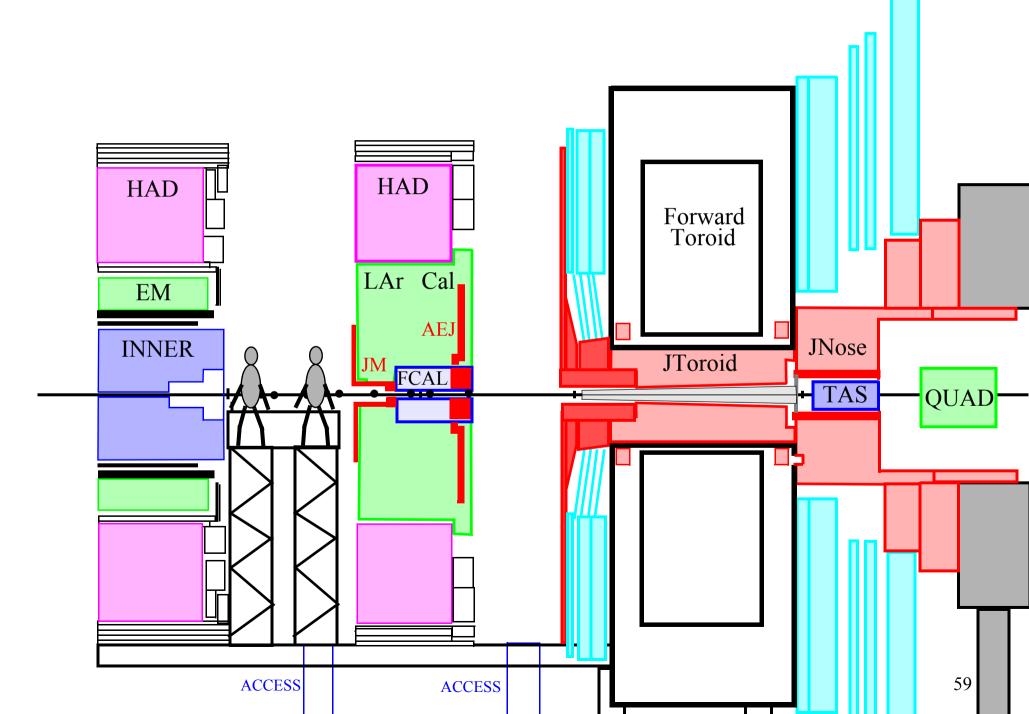
18. Scaffolding is beeing built.



18. Scaffolding is beeing built.

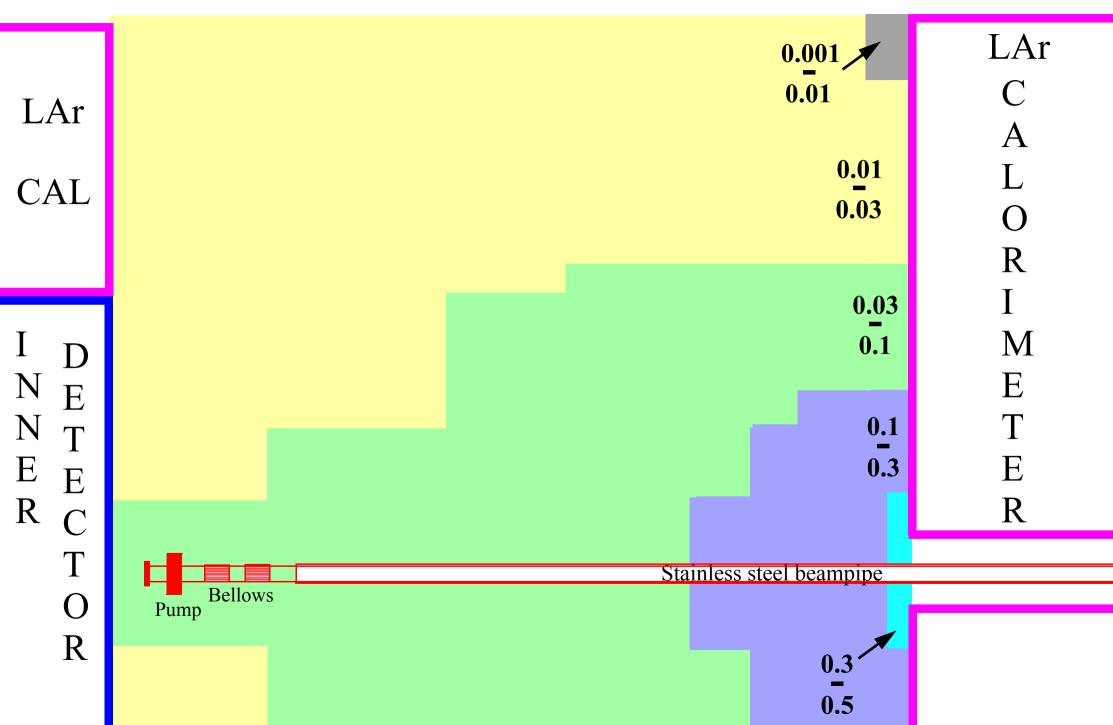


19. Maintenance of the inner detector.



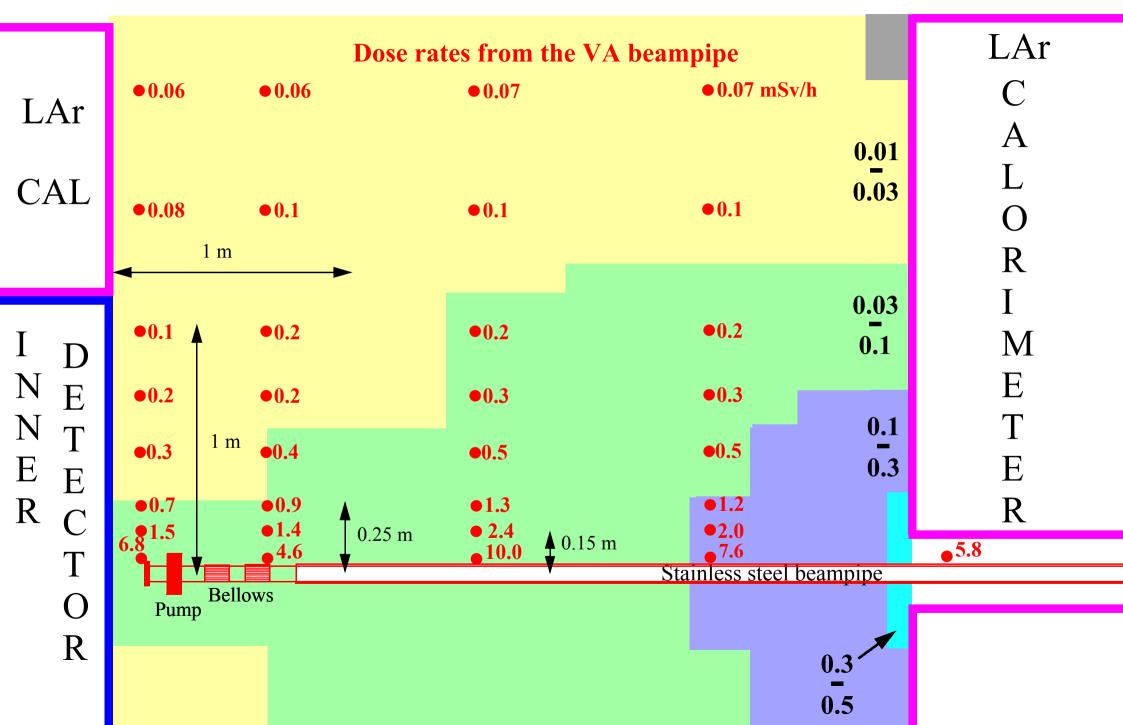
Dose rates after 10 years running and 5 days cooling

Dose rate in mSv/h from the calorimeters

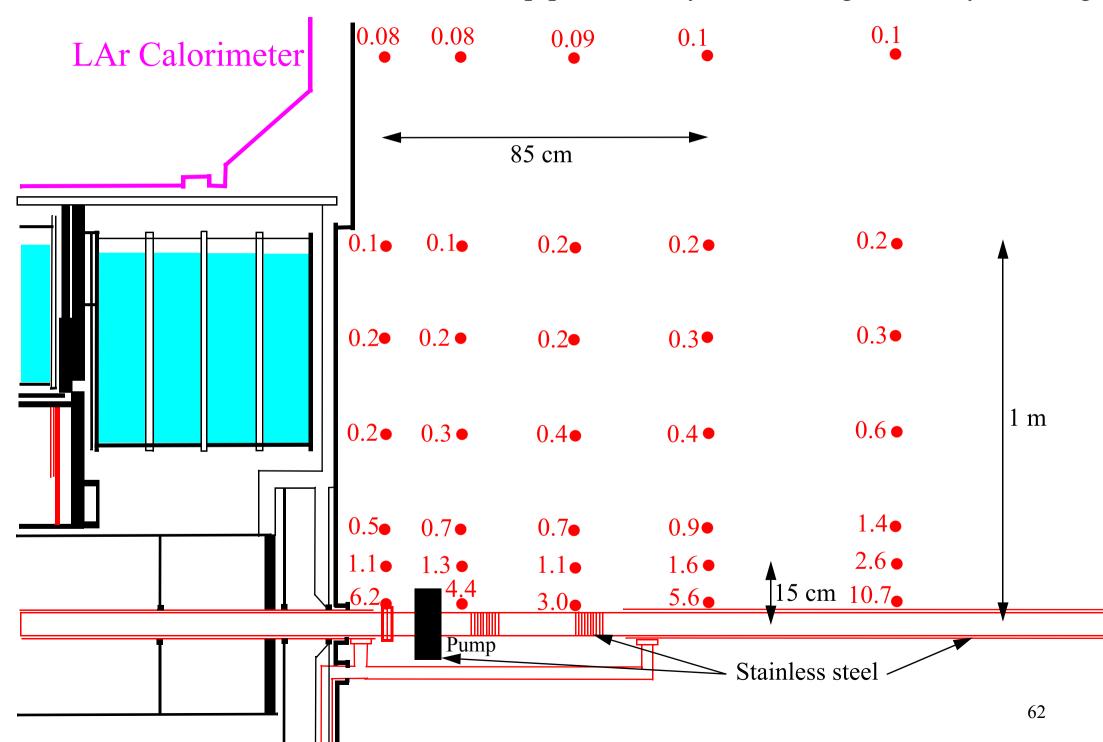


Dose rates after 10 years running and 5 days cooling

Dose rate in mSv/h from the calorimeters



Dose rates in mSv/h from the VA beampipe after 10 years running and 5 days cooling.



Dose rates in μ Sv/h from the Pixels+SCT+TRT+LAr cal.+VI beampipe after a 100 day run and 5 days cooling. Calculation by M. Morev.

