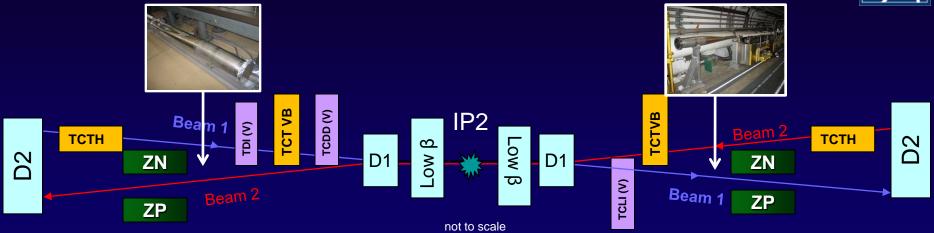


MODIFICATION OF THE LSS2 TO SOLVE THE TCTVB-ZDC INTERFERENCE

D. Macina EN/MEF

Collimation scheme in IR2



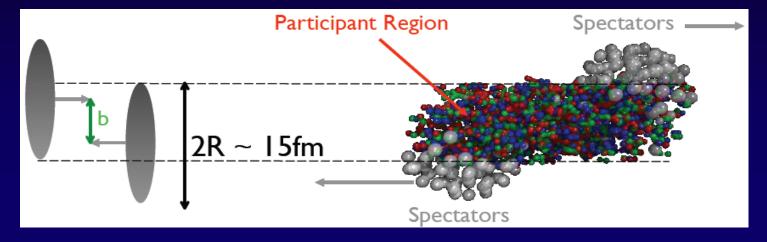


Movable collimators for protection at injection (only vertical plane)

- •TCTH (horizontal plane)
- •TCTVB (vertical plane).

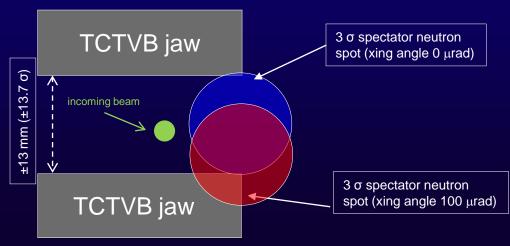
Interference between the ALICE ZDC signal and the TCTVB





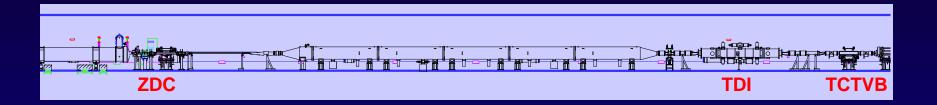
The ZDC will measure the E_{tot} and the centroid of the non-interacting (spectator) nucleons.

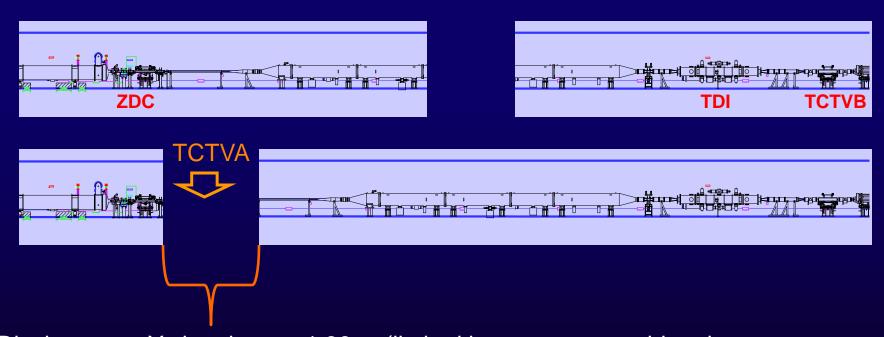
Part of the spectator nucleons are intercepted by the TCTVB jaws <u>introducing a systematic error which</u> <u>depends on the machine parameters.</u>



Solution: reproduce the same layout as in IR1/IR5







Displacement Y chamber <= 1.36 m (limited by aperture considerations. Note in preparation (J. Jowett, R. Appleby, J. Uythoven)

Organization



- EN/MEF coordinates the project and is responsible for the layout change
- Collimation working group is responsible for the detailed integration and installation of the TCTVA
- In order to proceed toward a ECR we need to know if the integration of the TCTVA in 1.36 m is compatible with the TCT requirements (see presentation from JP Corso, E. Page and O. Aberle)