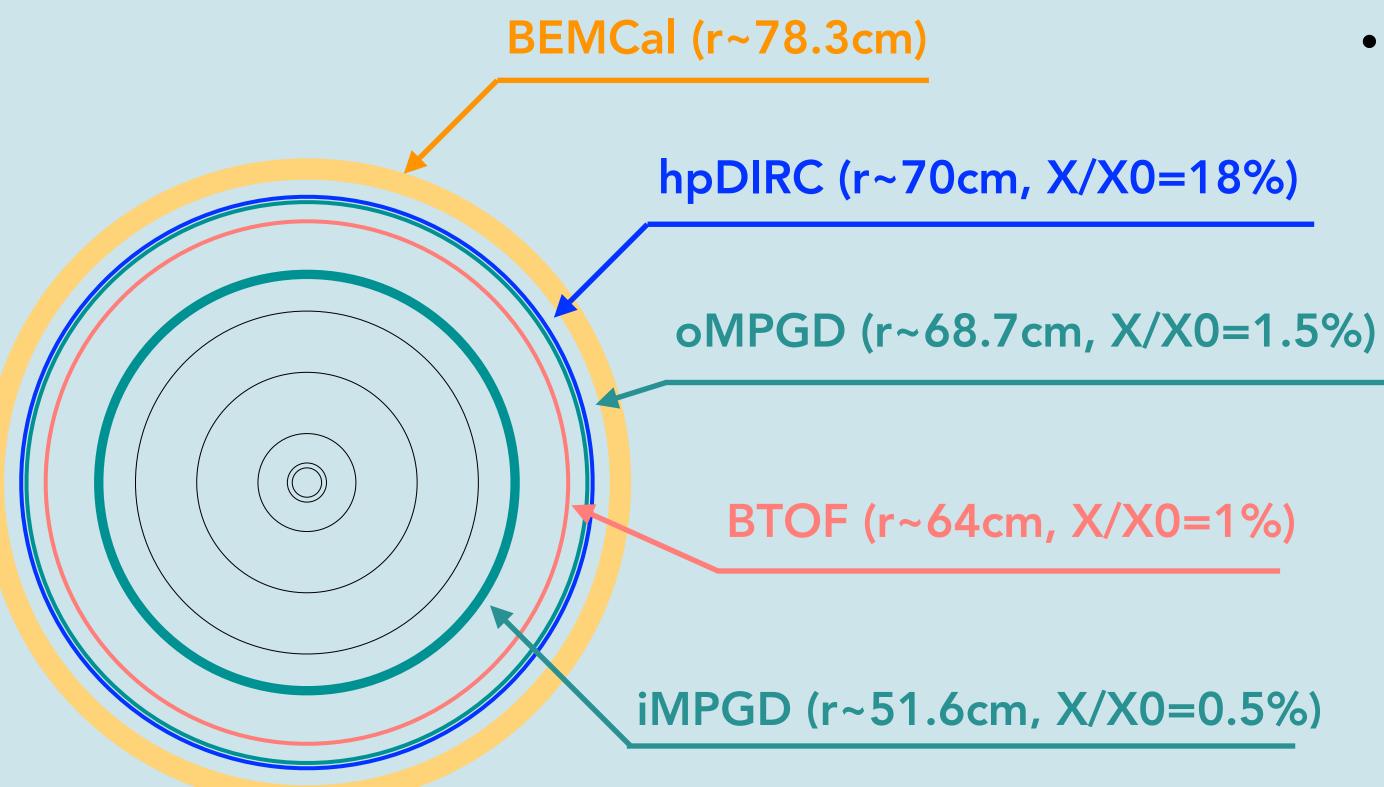


Satoshi Yano (Hiroshima University)
06/26/2024

What does the material budget affect?

- BTOF has been designed under the restriction of $1\% X/X_0$ material budget
 - Significant impact on the developing cooling and support structure design



- Is this small amount of material budget design really necessary?
 - For hpDIRC?
 - oMPGD is placed just in front of hpDIRC in the latest design →Not big effects on angular determination resolution by the BTOF material
 - For BEMCal?
 - The material budget of hpDIRC in the active area is approximately 18% → Not big effects on the EMCal performance by the BTOF material

I think we need a simulation study
The result should be shared among designers
TIC meeting?