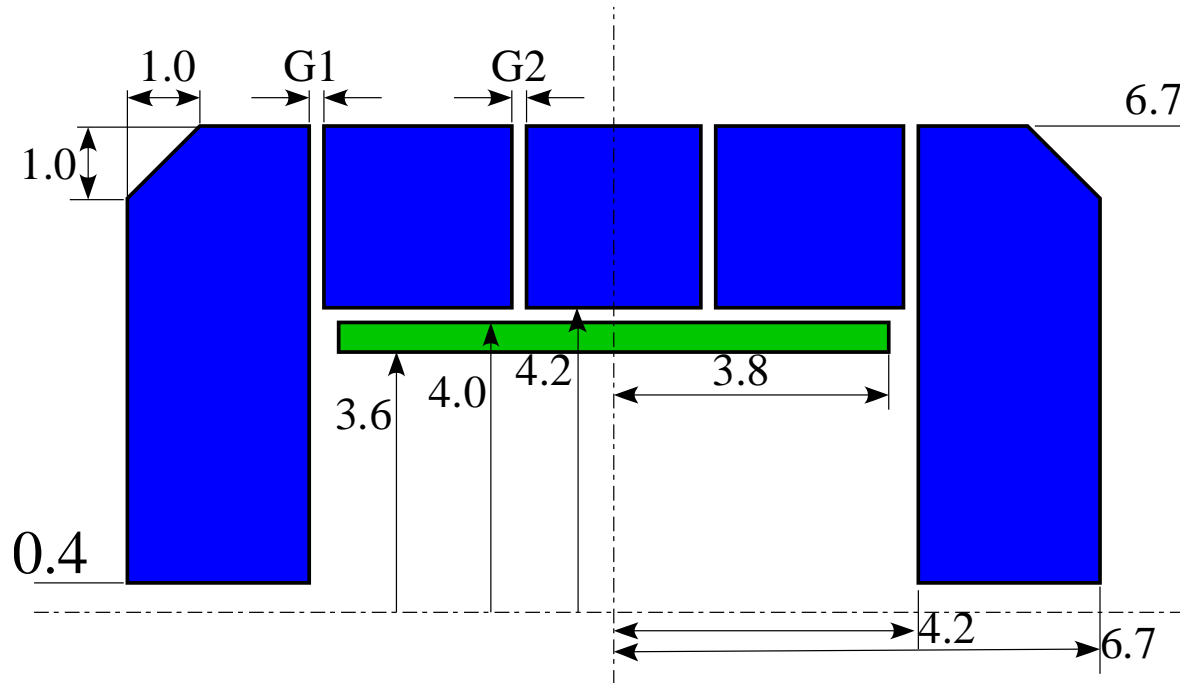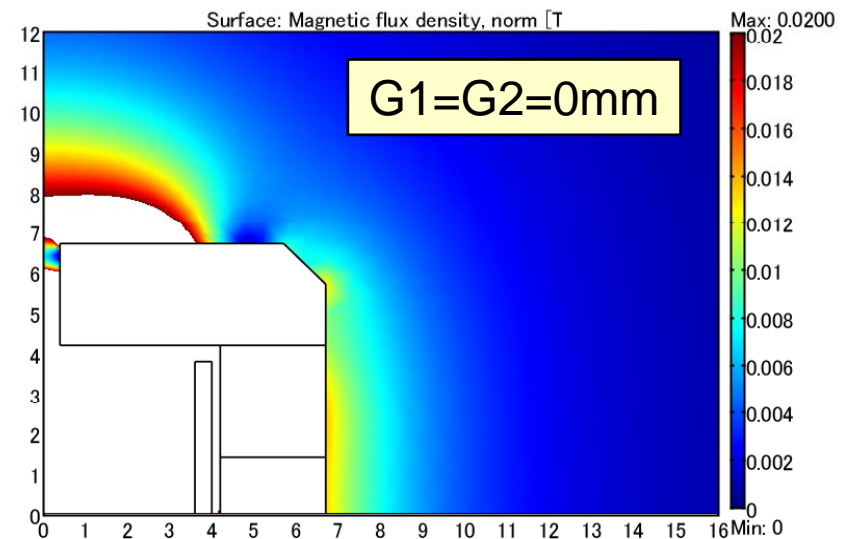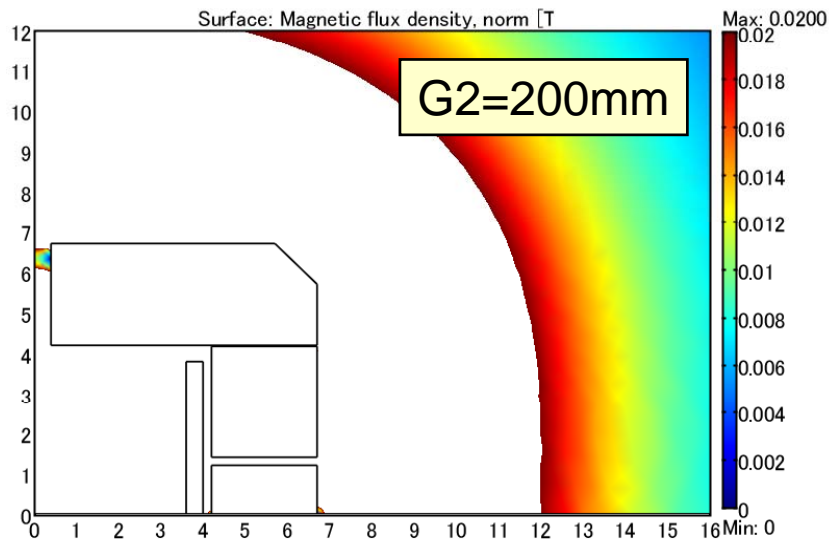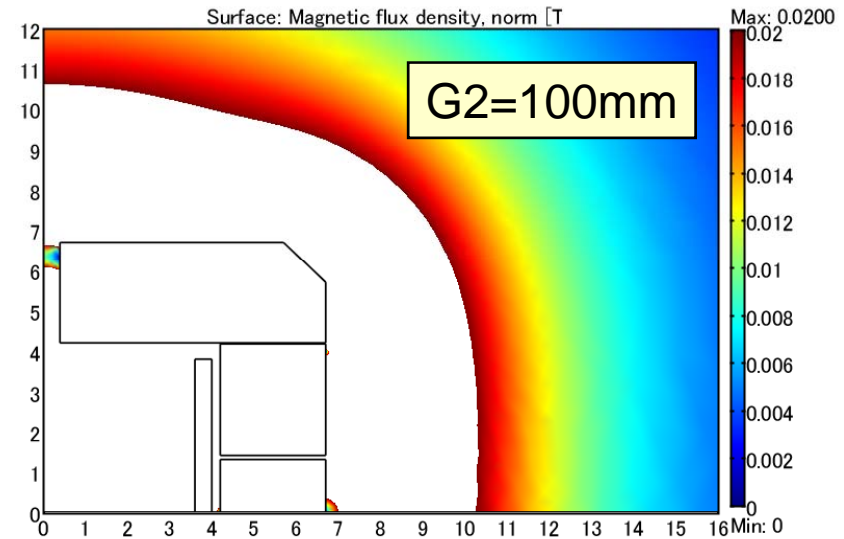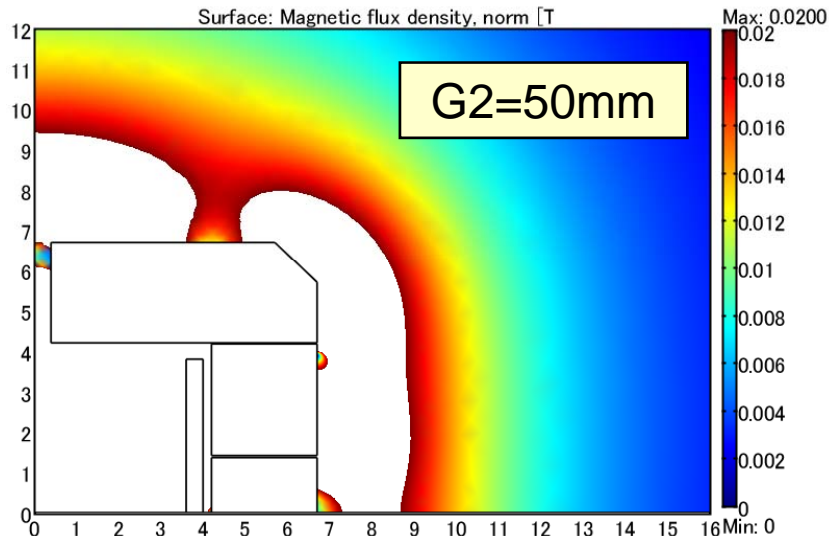# Stray field as a function of gap distance

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KEK

12 Nov. 2008

Model

- Simple 2D model (B=3.5T)

G1 (mm)	G2 (mm)
25	50
25	100
25	200
50	50
100	50
200	50

Stray field (G1=25mm)

Stray field (G2=50mm)
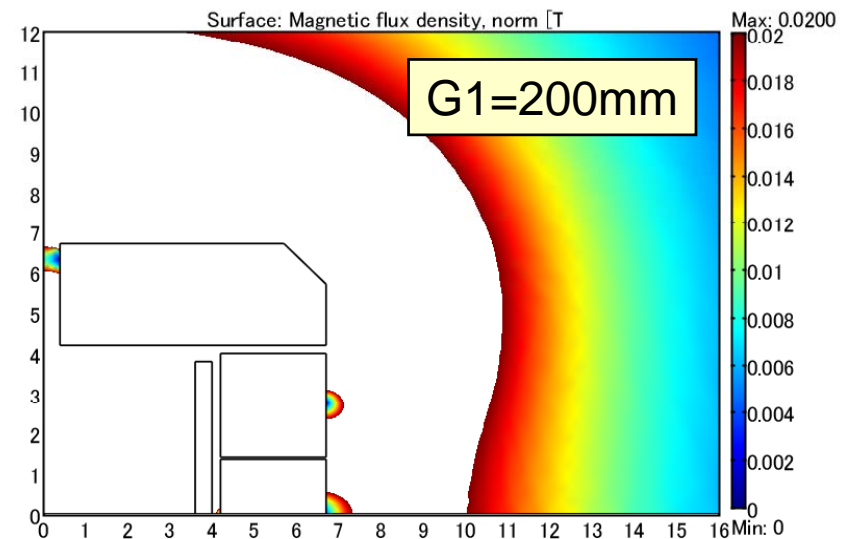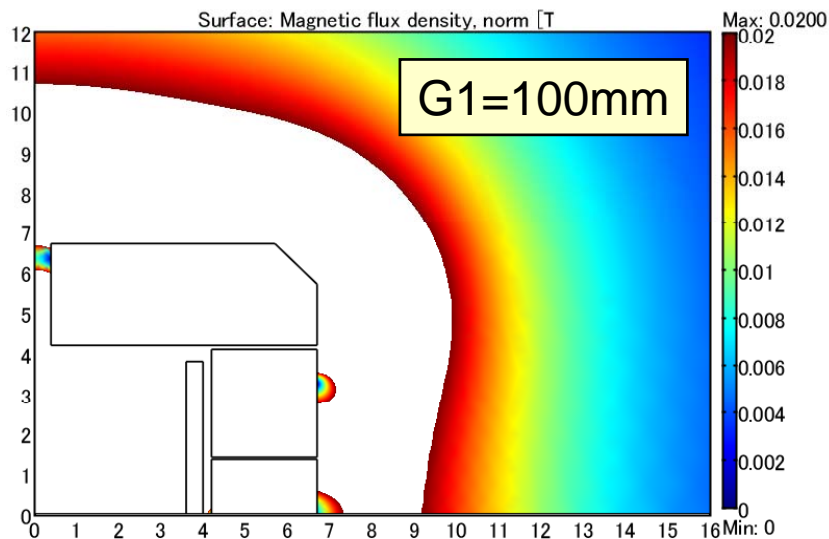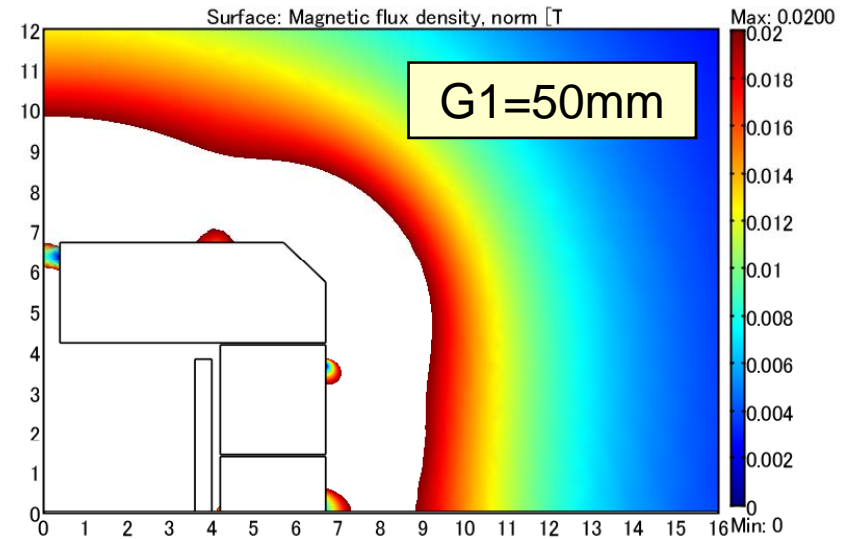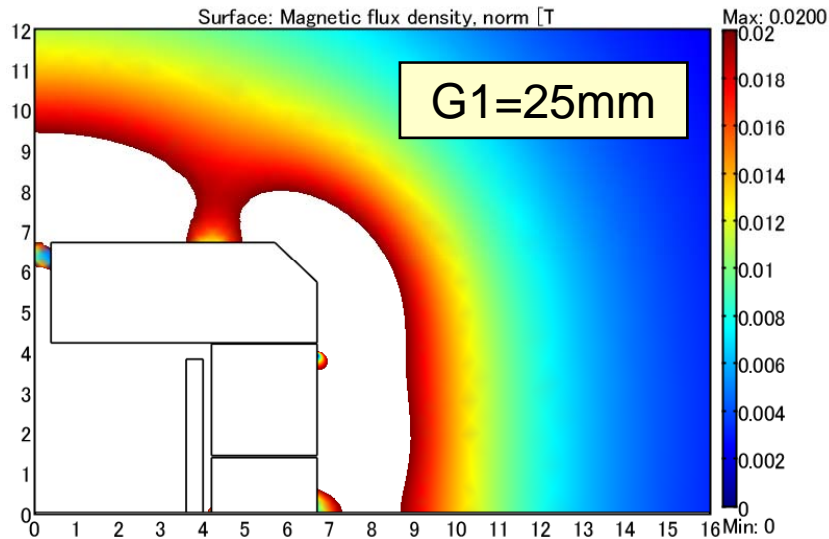
Conclusion

- Both endcap-ring gap and ring-ring gap affect the stray field substantially

- We need estimation of amount of cables/pipes from endcap detectors (ECAL and HCAL) in order to decide the gap between endcap yoke and barrel yoke