

Barrel : 8 vs 12

Octagonal (8)

coil

HCAL

ECAL

TPC

45°

overlap

16%

R=200, dR=20

readout space

x=5cm, 3.5m

dead space

S=1370cm²

Decagonal (12)

R

coil

dR

HCAL

ECAL

TPC

30°

overlap

34%

R=200, dR=20

readout space

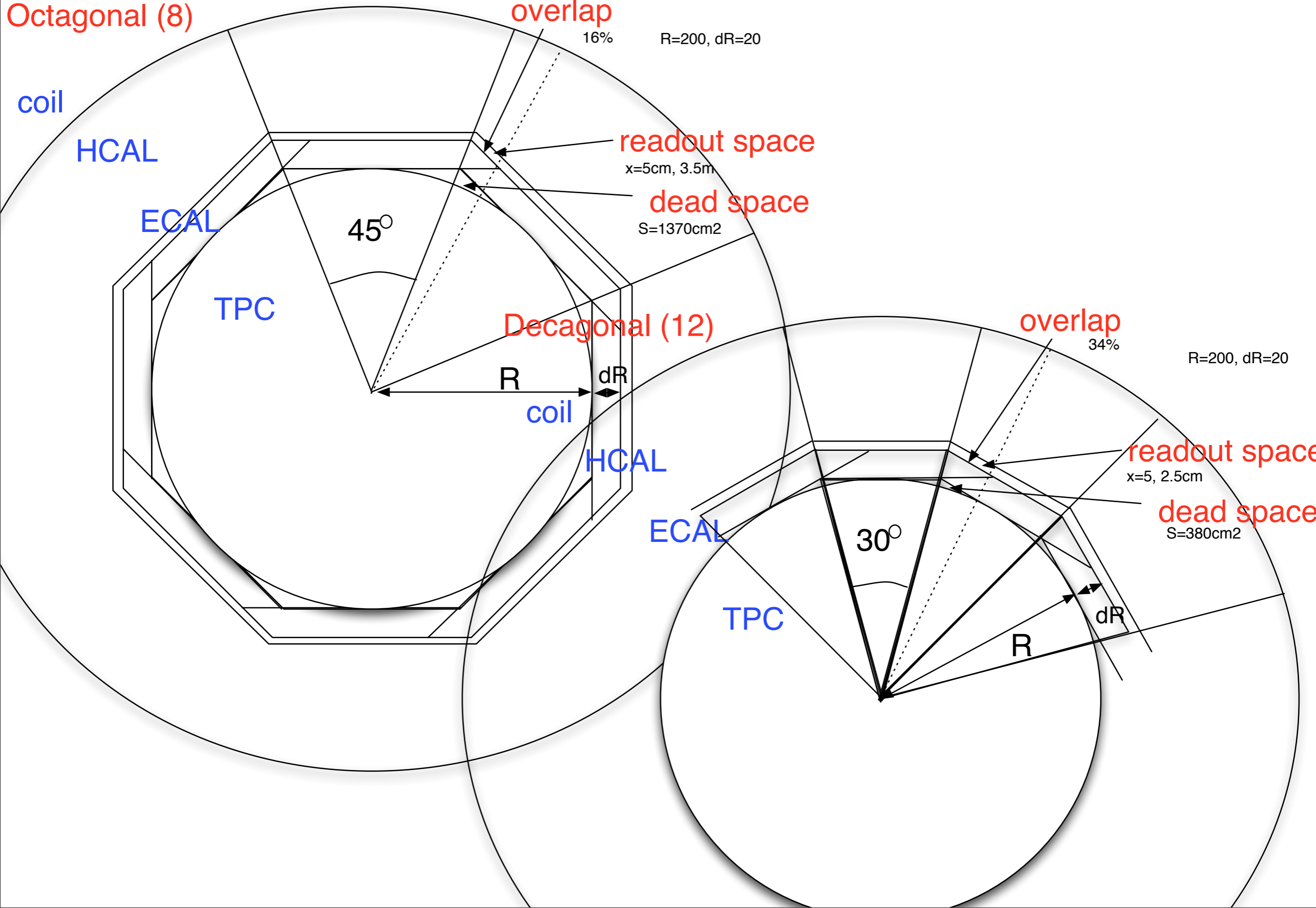
x=5, 2.5cm

dead space

S=380cm²

R

dR



Barrel : 8 vs 12

	8	12
space efficiency	1370cm ²	better 380cm ²
ECAL overlap	smaller 16%	33%
ECAL read out	3.5cm	2.5cm