

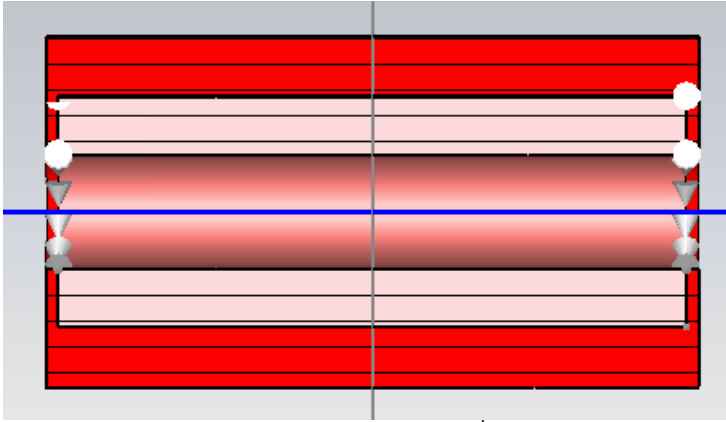


20180430 Meeting

**Korea University
Lim. EunHun**

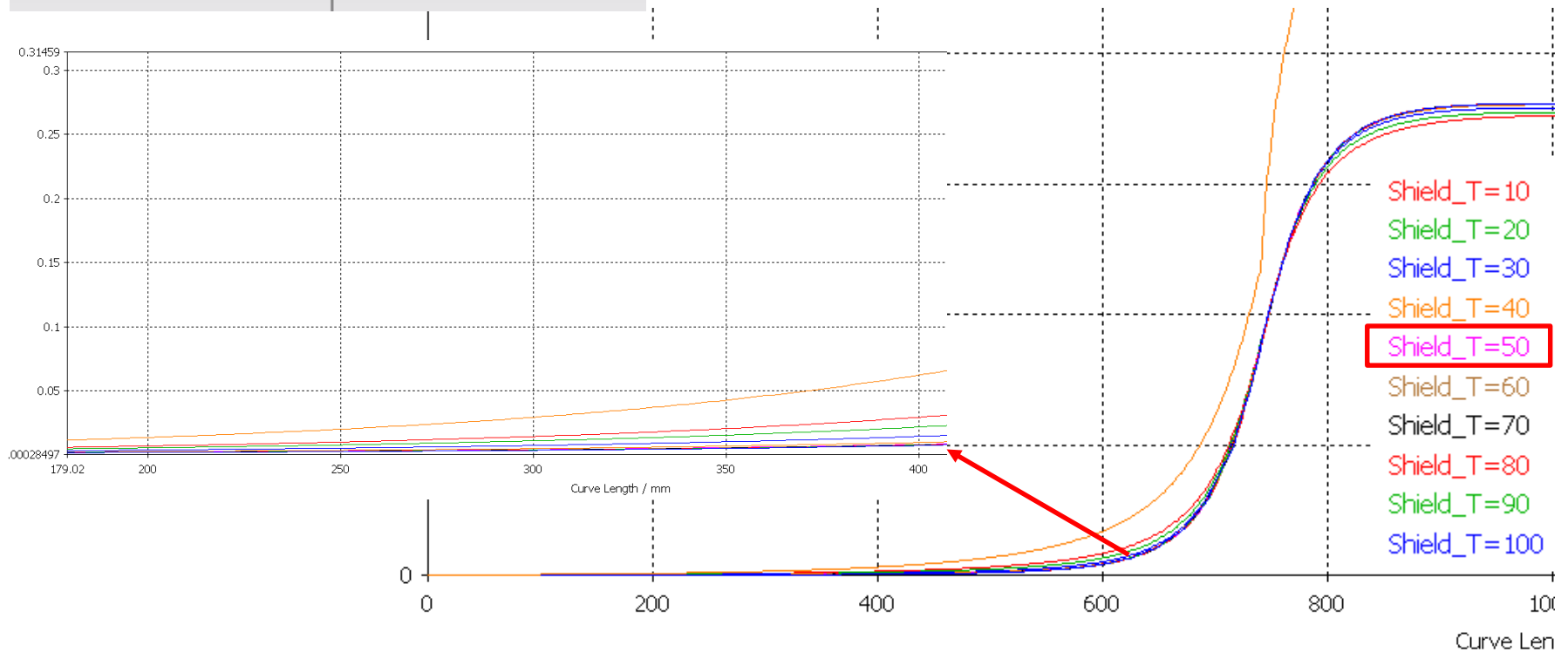


EGUN TEST with CST

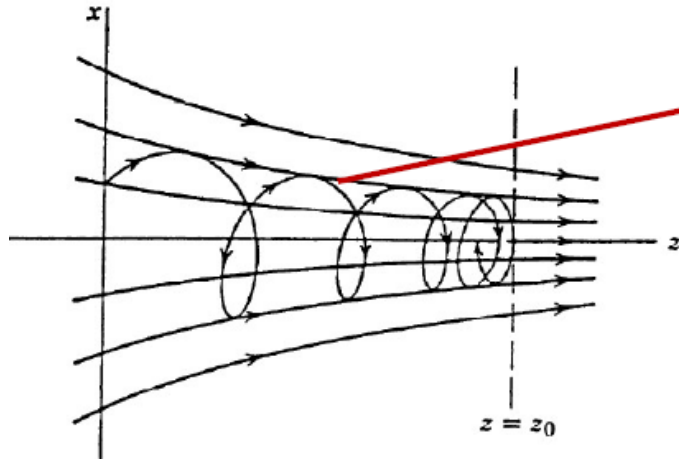


SC Magnet with Iron Shield Test (T 10~100)

Magnetic Field is reduced until 50T
As Shield T increases, Simulation Time increases



EGUN TEST with CST



$$v_{\parallel}^2 = v_0^2 - v_{\perp 0}^2 \frac{B(z)}{B_0}$$



B(z)가 증가하면 $v_{\parallel} = 0$ 이 되는 점이 존재

(직선운동에너지 → 퍼텐셜에너지)
(회전운동에너지)



(퍼텐셜에너지 → 직선운동에너지)
(회전운동에너지)



Mirror Reflection by the magnetic field

3T SC Magnet(~45 Degree)
– No Reflection

1. ~6T Test
2. Mesh Change

SC Magnet

JASTEC

- 5/14(Mon) or 5/16(Wed)

Liquid helium cryogen details :-

Siphon leg diameter	: 12.7 mm
Recommended minimum level of liquid during normal operation :-	
•reading on probe	: 70 mm
•length of probe	: 470 mm
Recommended refill volume during normal operation (nominal)	: 96 L
Normal hold time	: Greater than 90 days
Maximum liquid evaporation rate	: 45 ml/h (expected)

Liquid nitrogen cryogen details :-

Volume of vessel	: 80 L
Refill volume	: 68 L
Hold time in static condition	: Greater than 14 days
Maximum liquid evaporation rate	: 202 ml/h

LHe Refill 11/23

· 지그 및 공구

LHe 레벨계 일식
트랜스퍼 튜브
LHe 듀어
사다리
헤어 드라이어
액체질소배출관 ~ 고무호스
승온 펌프
심리드~테스터
NW25커플링 류, 핀치콕
오퍼레이터(싱크밸브)
승온용 히터, 온도조절기등
블로어 아웃 튜브(배출관)

Thank You

