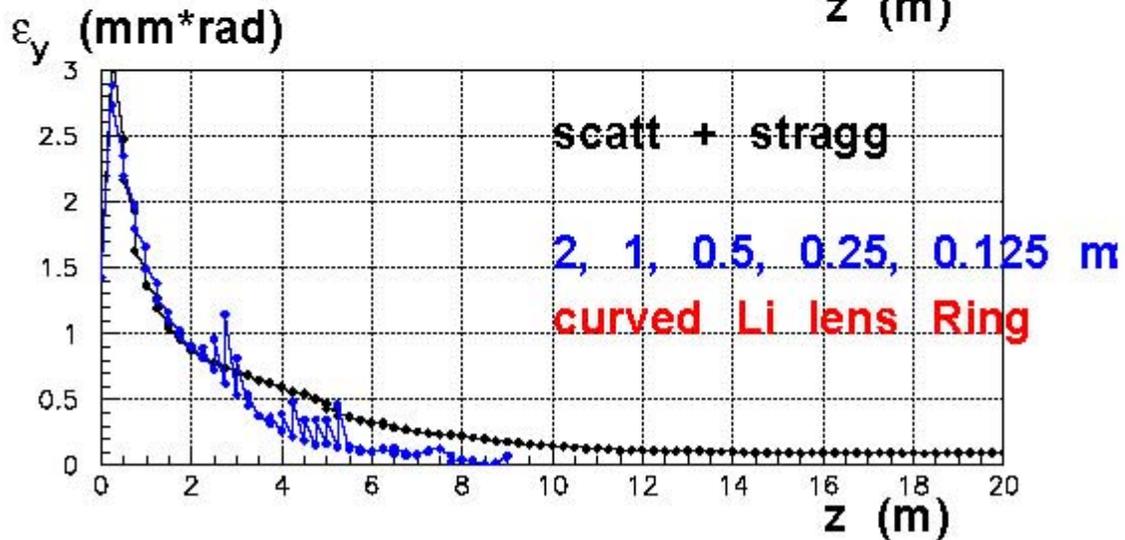
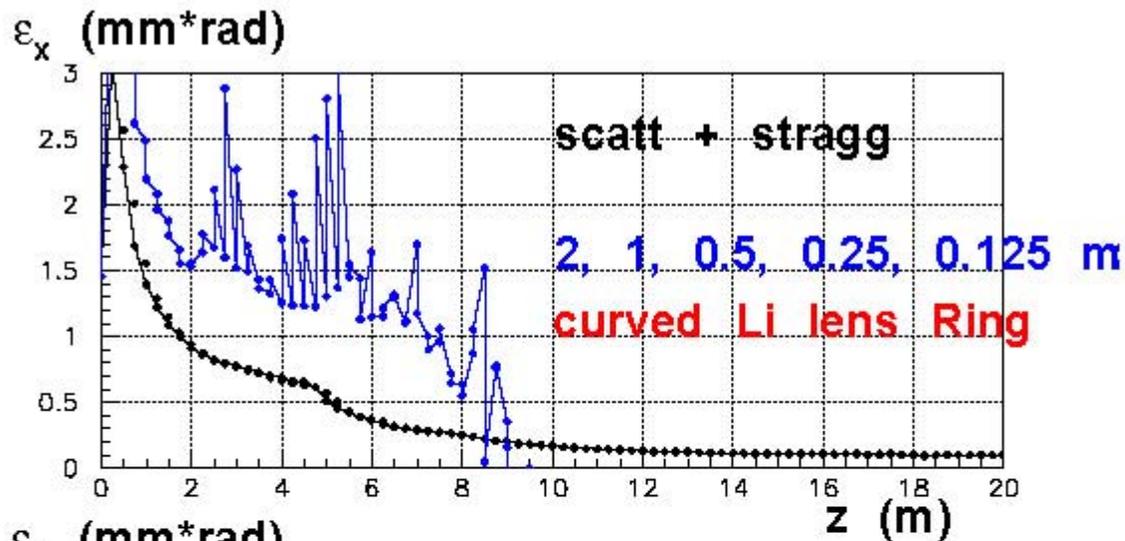


# Ring Models for Emittance Exchange

Yasuo Fukui

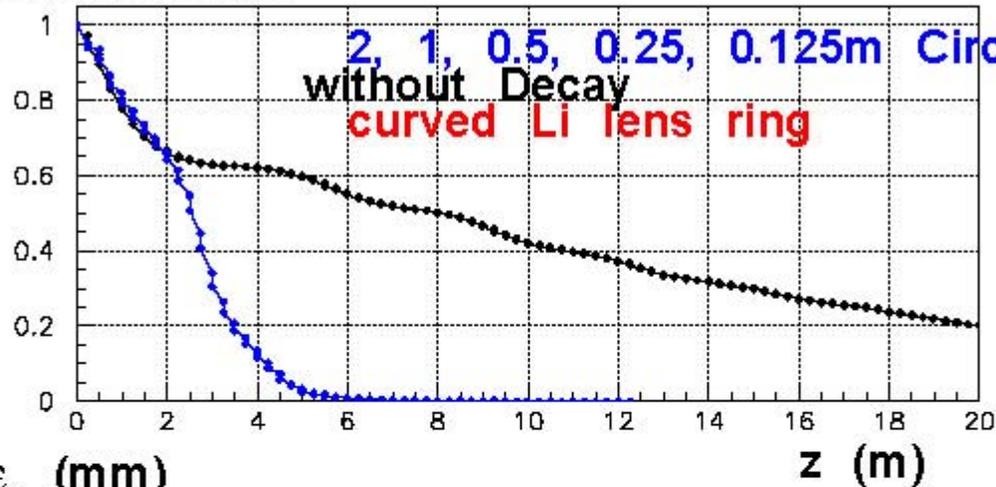
- ❑ Develop simple curved Lithium lens rings for 6D Cooling with Emittance Exchange.
- ❑ Compare cooling performance of Curved Lithium lens Rings with various radii.
- ❑  $\beta$  is 1 cm, a RF gap /25 cm Li lens

# Transverse Emittance

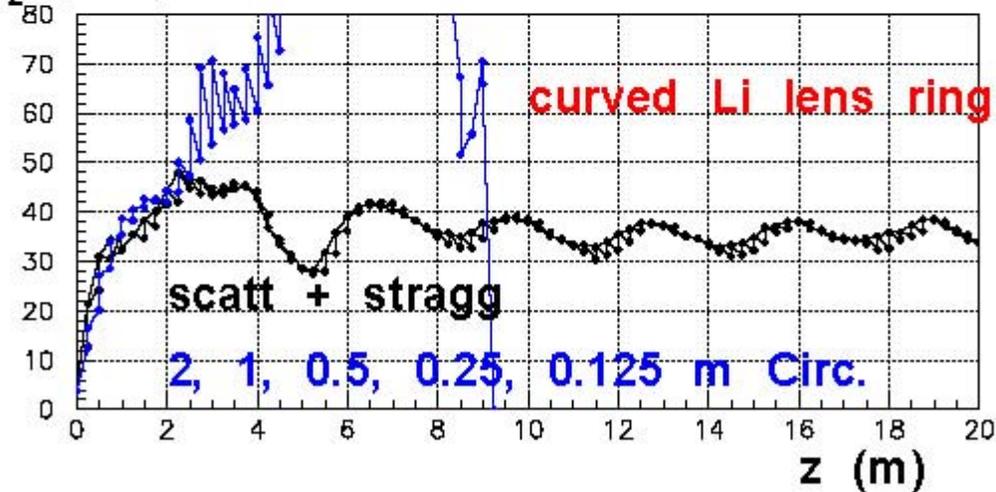


# Transmission/Longitudinal Emittance

Transmission



$\epsilon_z$  (mm)



# Emittance Exchange

- ❑ Development of Transverse and Longitudinal Emittance does not depend on Radius in the circumference range of 0.25 – 2.0 m
- ❑ Is Emittance Exchange supposed to depend strongly on the radius of a cooling ring?
- ❑ How to get the strength of the emittance exchange?