



To be considered (1st)

- The first version (double ring structure):
 - Soft magnet inside.
 - Antisolenoid (whole region) is needed where Superconducting Mag. brings vibration fear. But may be small effect on beam.
 - ➡ Large repulsive force ~200kN to be supported.



To be considered (2nd)

The second version (five-ring-singlet):

Mo soft magnet.

- Antisolenoid is still needed but partial. Vibration from Superconducting Mag. may be small effect on beam. (HTc coil?)
- ➡ Magnetic force should be small.
- Demagnetization resistance has to be checked.
- Effect on beam of μ =1.05 has to be checked.
- What about SD0?



Rough Calculation





To do



Partial Antisolenoid and its support

Beam simulation considering μ =1.05

Demagnetization test for Assembled Magnet



