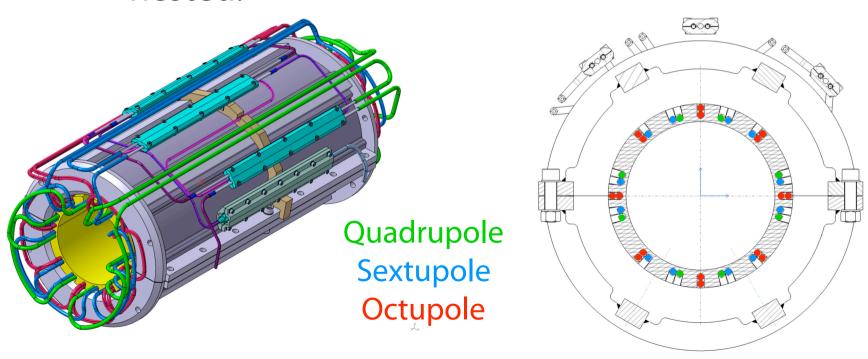
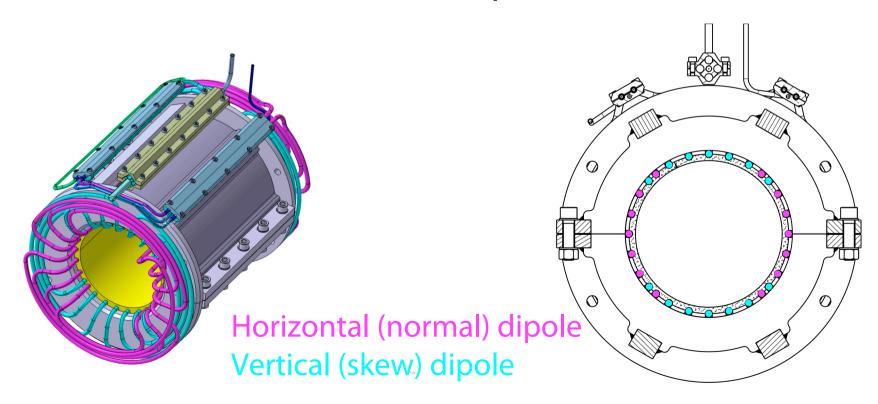
Kei SUGITA

GSI FAIR-MT 19. Feb. 2009, INTAS Meeting

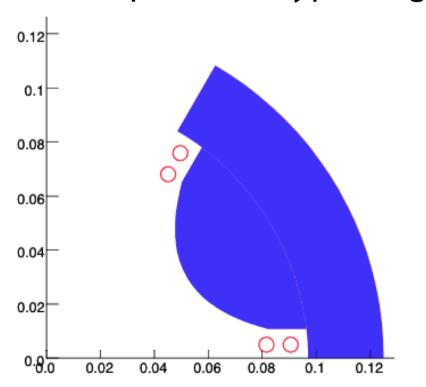
- Error compensation multipole corrector
 - Quadrupole, sextupole, and octupole are nested.

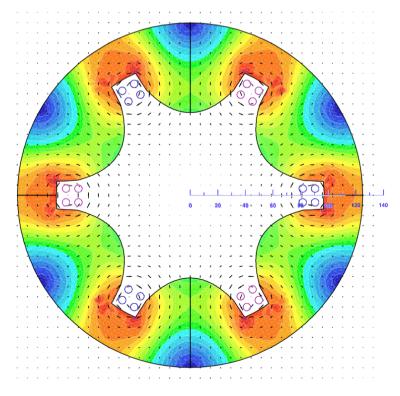


- Steerer magnet
 - Horizontal and vertical dipoles are nested.



- Chromaticity sextupole
 - Super-ferric type magnet





Requirements for correctors

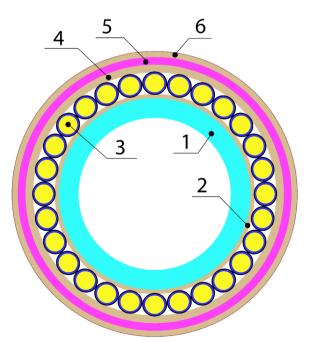
- Common cooling system
 - 2 phase helium, tube cooling
 - Nuclotron type cable
- Low current < 300A
 - In order to minimize heat load from current leads.

Cable for correctors

- Nuclotron type cable with insulated wires
 - Connect wires in series

- By replacing sc. wire, operation current is

adjustable.



1. CuNi tube

ex. 10 sc. wires cable for the quadrupole corrector

- 2. Kapton, t=0.05mm, 1 layer, 50% overlapped
- 3. Superconduting wire, 0.5mm diameter, with enamel
- 4. Kapton, t=0.05mm, 2 layers, 50% overlapped
- 5. CrNi wire, 0.2mm diameter
- 6. Kapton, t=0.07mm, 1 layer, 50% overlapped Maximum 28 sc. wires

	Multipole			Steerer		Chrom.
Num. of Mag.	12			84		48
	Quad.	Sext.	Oct.	Н	V	
Cable length [m]	12	14	17	13	12	13
Num. of wires	10	22	19	28	28	20
Current [A]	249	245	251	260	268	255
Max. field [T]	0.5			0.5		1.2
dB/dt [T/s]	2.1			2.5		6.8