

## Magnetic shielding

☆ key technology for superconducting RF cavities

☆ The allowable tolerance for the ambient magnetic field depends on factors such as  
the operating RF frequency  
the acceleration gradient,,,  
but it can be as low as a few mG.

Effects of magnetic shield  
ambient(earth)  
during operation

11:00–11:05	Introduction: Magnetic shielding session	Mika Masuzawa(KEK)
11:05–11:20	Fringe Fields near SRF cavities	Juliette Plouin(CEA)
11:20–11:50	Effects of the magnetic fields	
11:20–11:35	Effects of the ambient magnetic field on cavity performance	Daniel Gonnella(Cornell)
11:35–11:50	Effects of the magnetic field on cavity during operation	Dmitri Sergatskov(FNAL)
11:50–12:20	Strategies for choosing the shielding material suited for large scale production	Olivier Napoly(CEA), Kiyosumi Tsuchiya(KEK)
12:20–12:30	Summary for WG7	Heiner Brueck,Mika Masuzawa