



# Superconductivity and other new Developments in Gantry Design for Particle Therapy

## Friday, 18 September 2015

### SC magnet technology (09:00 - 10:30)

-Conveners: Stephane Sanfilippo

time	[id] title	presenter
09:00	[11] MgB2 Development for magnets in medical applications	Mr TROPEANO, Matteo
09:30	[12] Last developments and performance of Nb3Sn at CERN	Mr DE RIJK, Gijs
10:00	[13] Cooling methods and cryogenic systems for rotating superconducting magnets	Dr BAUDOY, Bertrand

### SC magnet technology (11:00 - 12:30)

-Conveners: Stephane Sanfilippo

time	[id] title	presenter
11:00	[14] Dynamic effects on superconducting dipoles used for an ion beam cancer therapy gantry	Dr FABBRICATORE, Pasquale
11:30	[15] Magnet design for carbon therapy gantry, comparison of alternatives to superconducting gantry	Dr EBSKAMP, Frank
12:00	[16] Status of the superconducting rotating gantry for heavy-ion therapy	Dr IWATA, Yoshiyuki

### SC magnet technology (14:00 - 15:30)

-Conveners: Marco Schippers

time	[id] title	presenter
14:00	[17] Compact curved superconducting magnets for an ion therapy gantry using the Canted Cosine Teta geometry	Dr CASPI, Shlomo
14:30	[18] Study of a compact curved superconducting dipole for the next generation of gantries at PSI using racetrack coils	Dr CALZOLAIO, Ciro
15:00	[19] Novel lightweight achromatic superconducting magnets for gantries	Dr BROMBERG, Leslie