

## Heat Treatment Effect on the Parameterisation of the Critical Current of a Nb<sub>3</sub>Sn Strand

Heekyung Choi<sup>\*</sup>, Soo-Hyeon Park, Chulhee Lee, Sangjun Oh, Keeman Kim

*National Fusion Research Institute, Daejeon, Korea*

Heat treatment dependence of the critical current of an internal-tin processed Nb<sub>3</sub>Sn strand has been measured using a modified Walter spiral probe with which compressive and tensile strain can be applied reversibly to a strand soldered on the outskirts of the spiral. The critical current is measured at various temperatures and fields. The measurement results are presented and analyzed by various scaling laws.

Keywords : Nb<sub>3</sub>Sn strand, Scaling law, critical current