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Development of Nb₃Sn for FCC in Korea

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KAT have manufactured various kinds of wires to achieve an FCC requirement during last two years. As a result, it succeeded in developing a wire having a critical current density of 1,070 A/mm²@16T and an effective diameter of 69 micrometers with short piece length. Recently, our research has been successfully conducted to secure a piece length of 100 m or more. Totally 6 km of strand has been produced to deliver CERN in this year. In order to improve the critical current density and the effective diameter, further optimization of the final heat treatment and homogeneous distribution of Sn and Ti will be attempted in the future research.

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