TECH/P5-15

High-temperature superconducting magnet system for the next-generation helical device

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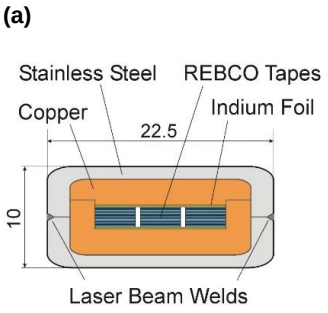
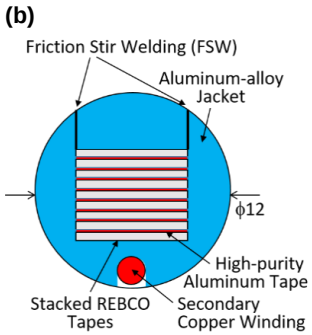
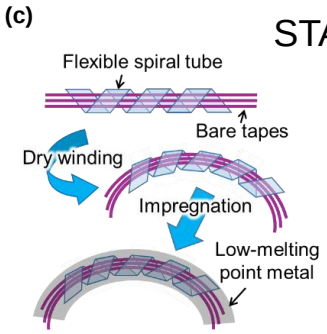
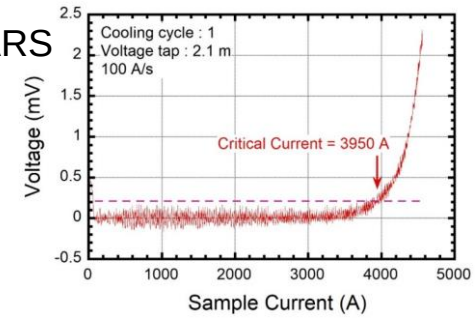
Three types of large-current capacity (4-18 kA)
High-Temperature Superconducting (HTS) conductors are being developed at NIFS

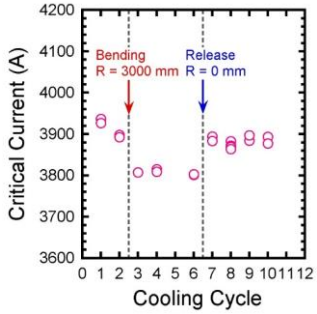




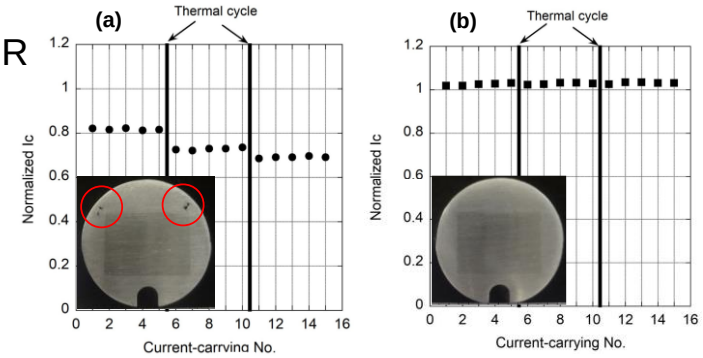


STARS

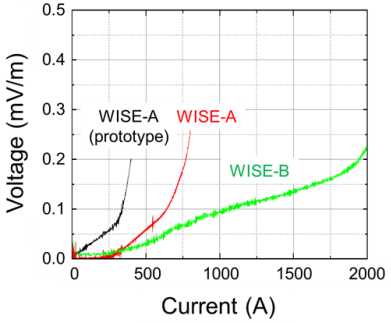




FAIR



WISE



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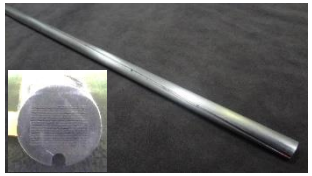

FAIR

WISE

1-3 m long conductor samples have been tested in 77 K and 0 T
~2 m long conductor samples will be tested in > 7 T and < 20 K