

## Recent Advances in Iron-based Superconducting Wires and Tapes

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**Abstract** - Very recently, great progress has been made in fabricating high-performance iron-based superconducting wires. At 4.2 K, the transport critical current  $J_c$  reached  $1.7 \times 10^4$  A/cm<sup>2</sup> at 10 T for textured powder-in-tube (PIT) Sr<sub>1-x</sub>K<sub>x</sub>Fe<sub>2</sub>As<sub>2</sub> tapes, which approaches the  $J_c$  level desired for practical applications. Furthermore, high  $J_c$  multi-filamentary 122 type wires were successfully produced.

IEEE/CSC & ESAS European Superconductivity News Forum (ESNF) No. 24 April 2013.

The final version of this paper will appear in the June 2013 Issue of IEEE Trans. Appl. Supercond.

Received and accepted April 23, 2013. Reference No. STC01; Category 5