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M1Or2B-02 [Invited]: Present status of RE-123 superconducting wire development at Shanghai Superconductor Technology

Monday, 22 July 2019 11:30 (30 minutes)

I will introduce the activity of RE-123 Coated Conductor (CC) at Shanghai Superconductor Technology Co. Ltd (SSTC). Recently we have many HTS projects in China including accelerator, high-field magnet, electric power applications and so on. For these projects, we have been supplying a large amount of RE-123 CC stably. The CC fabrication process is PLD-IBAD method and the I_c (77K, 0T) is around 400 to 500A/cm. Each process is done at a high speed around 100 m/h. Now, we can supply a large amount more than 100km/year. Together with the Chinese HTS project, these R&D activities including I_c improvement at high field and low temperature, mechanical property, junction and combined conductor will be presented.

Primary authors: Prof. YAMADA, Yutaka (Shanghai Superconductor Technology Co. Ltd.); Prof. ZHAO, Yue (Shanghai Superconductor Technology Co. Ltd.); Prof. HONG, Zhiyong (Shanghai Superconductor Technology Co., Ltd); Prof. JIN, Zhijian (Shanghai Jiaotong University)

Presenter: Prof. YAMADA, Yutaka (Shanghai Superconductor Technology Co. Ltd.)

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