

## PIT Nb<sub>3</sub>Sn conductor for FCC: potentials and challenges

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Nb<sub>3</sub>Sn conductor manufacturing is a mature technology. The world wide large scale fabrication effort by various approaches for ITER has proven this. Nevertheless, the magnets that are currently discussed for FCC require much higher performance levels and quantities. Up to now, no Nb<sub>3</sub>Sn conductor exists that satisfy the challenging targets. Bruker supplies Nb<sub>3</sub>Sn conductors manufactured by the Powder-In-Tube- (PIT-) approach. Conductors like these have the potential to fulfill the demanding target specification, but need dedicated R&D. The talk will summarize the performance status of its PIT-Nb<sub>3</sub>Sn conductors and give an outlook on required R&D for further improvement.

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