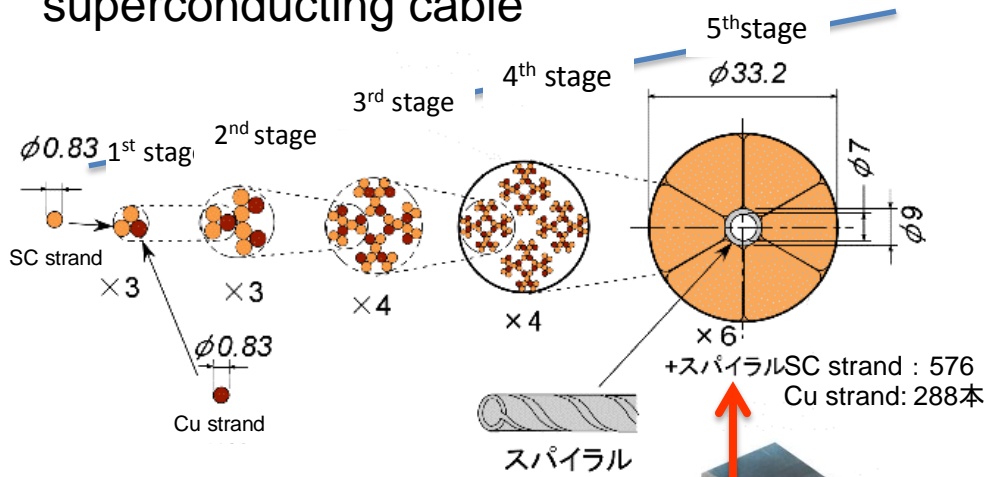


# Advance in Japanese superconductor for ITER

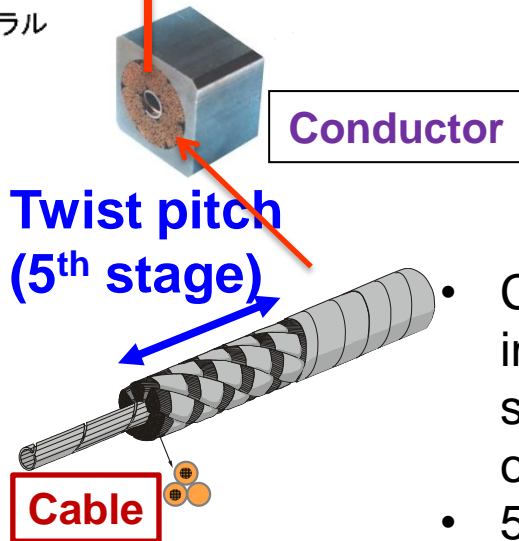
Y. Nunoya, Y. Nabara, Y. Takahashi, T. Suwa, M. Oshikiri, F. Tsutsumi, J. Takamura, S.Chuheishi, K. Shibutani  
Japan Atomic Energy Agency,

## ITER CS conductor superconducting cable

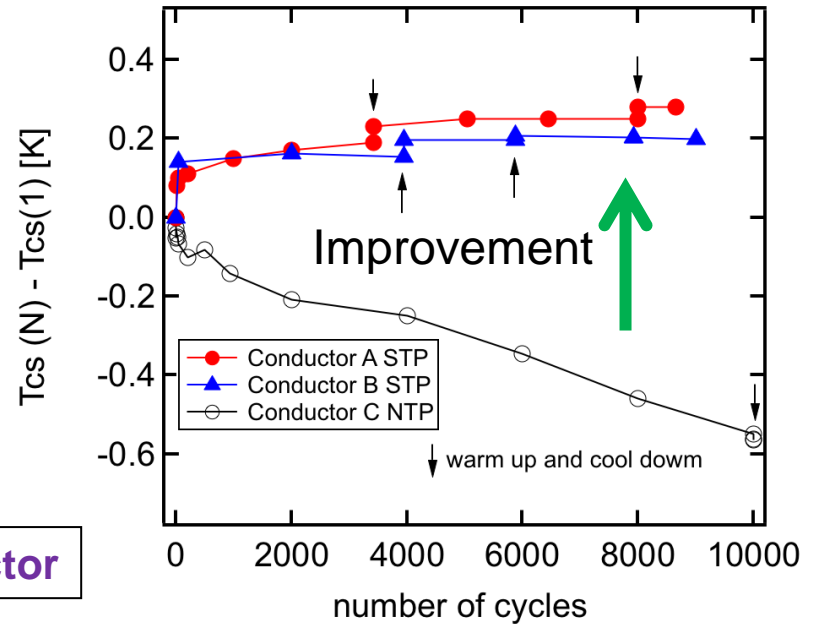


Cabling stage	Twist Pitch[mm]	
	Original cable	Improved cable (A/B)
1st	45	23/20
2nd	85	48/45
3rd	145	88/80
4th	250	150
5th	450	452/450

Twist pitch: the longitudinal length necessary for one twist



## Conductor performance test at SUTAN facility



- CS conductor performance was improved by the cable optimization to shorten the twist pitch, enabling start of CS cable manufacturing in Japan.
- 5 conductors was completed and delivered to US in June, 2014.