

Progress of the SUNIST-2 spherical tokamak

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- Small modification to the design
- More operation modes
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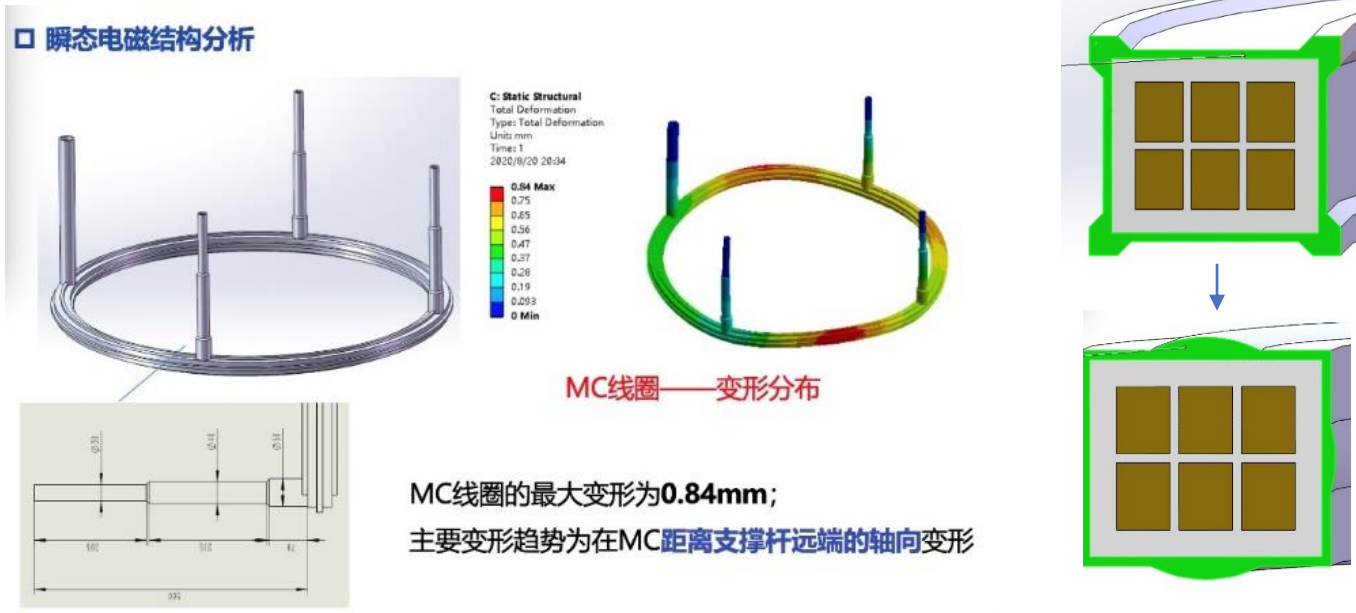
- **Periphery systems**

- Power supply
- Pre-ionization

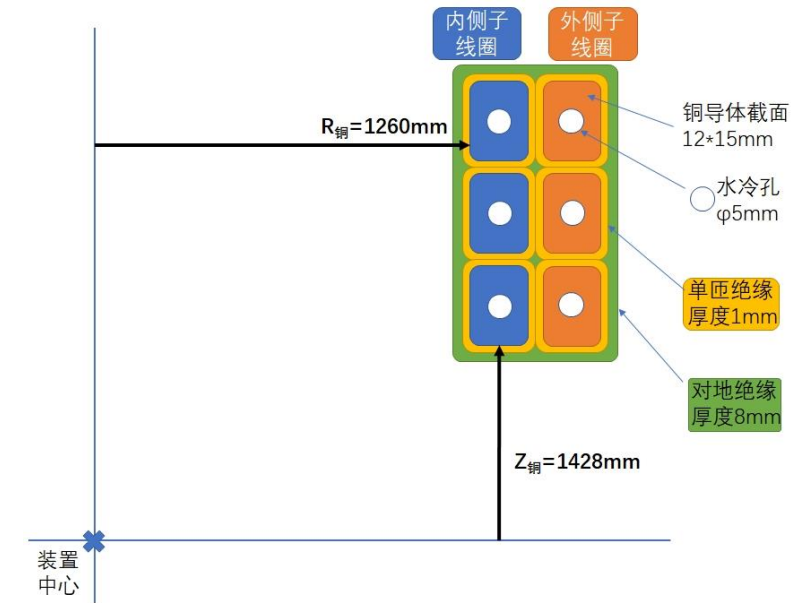
- **Outlook**

Machine

- Small modification to the design



The support and the box of inner coils are modified to meet mechanical requirement

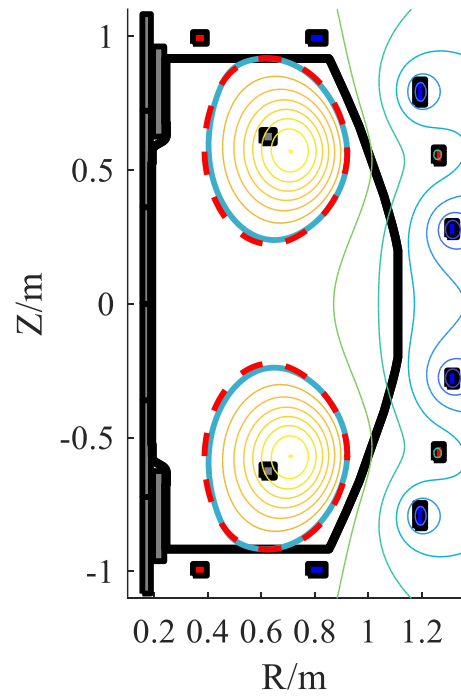


The compensation coils of CS adjusted

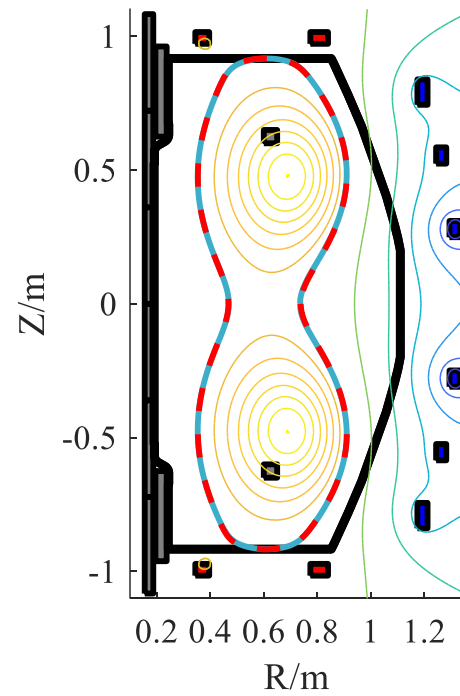
Machine

- More operation modes analyzed

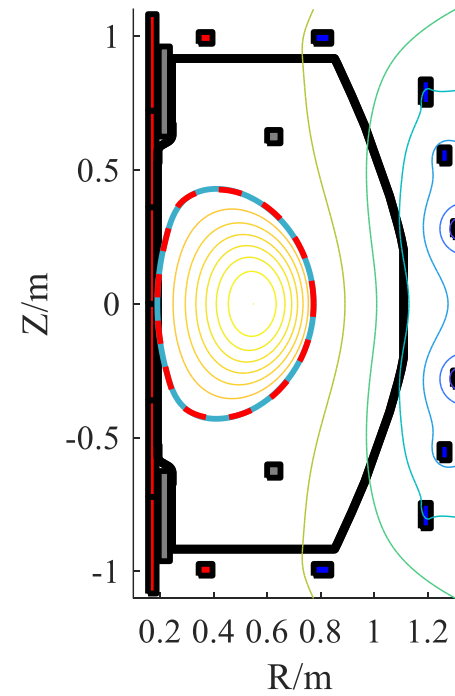
Detailed in Mr CHENG Zhengbo's poster



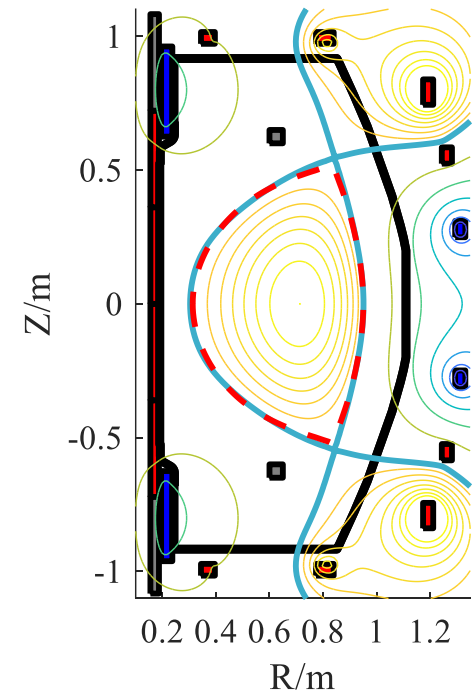
double droplets



doublet



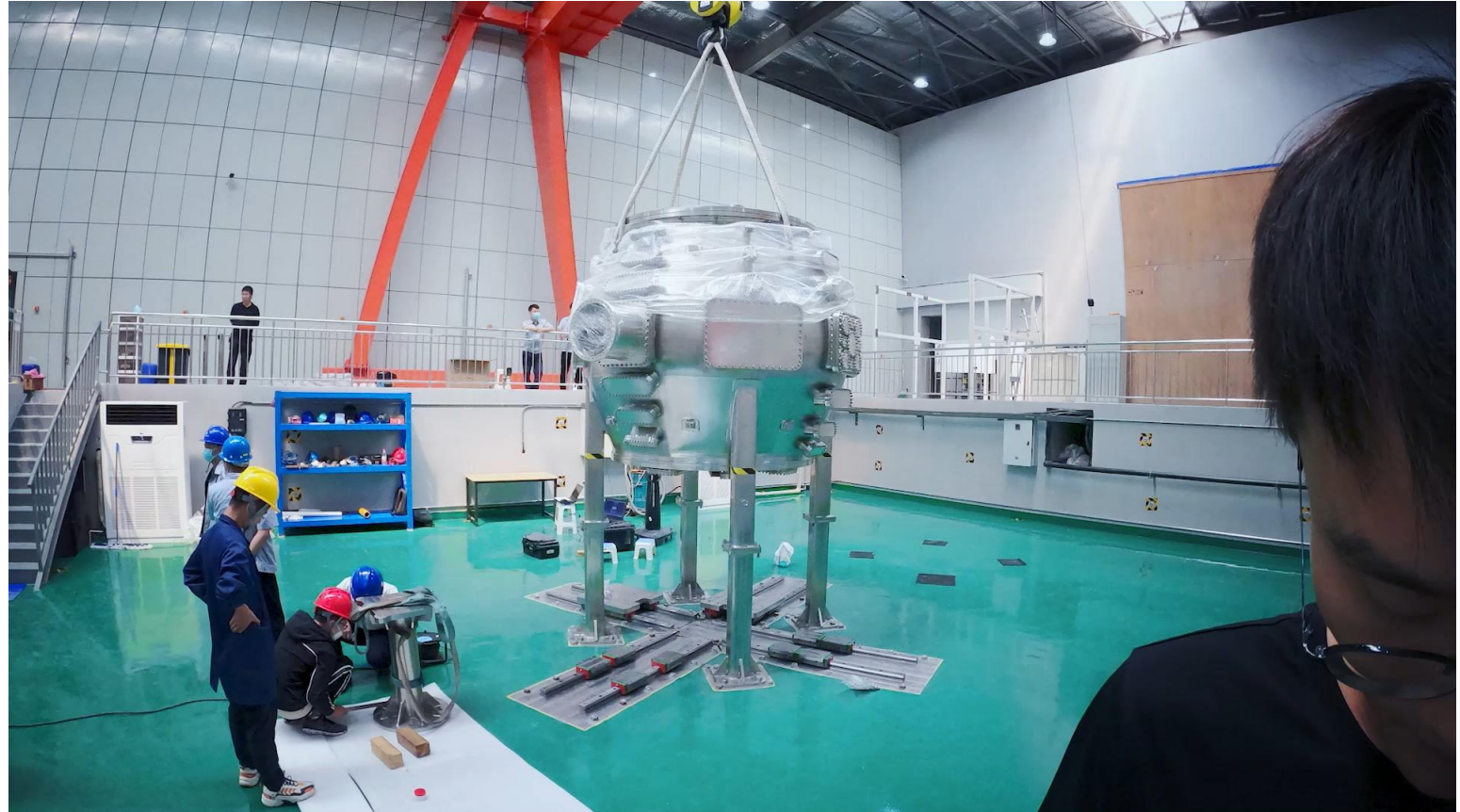
limiter



negative triangularity

Construction

- Delayed more than one year
 - Covid-19 restrictions
 - Prepare a proper place to host
- Expected to be finished in two weeks



Periphery systems

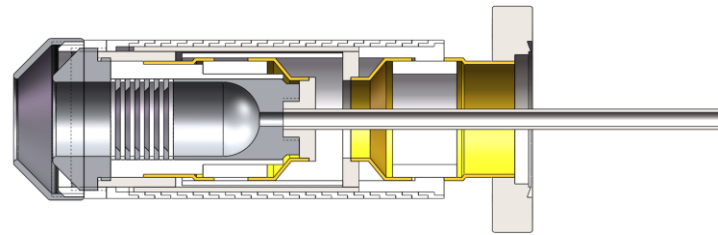
Detailed in Mr SONG Zichong's poster

- **Power supplies**

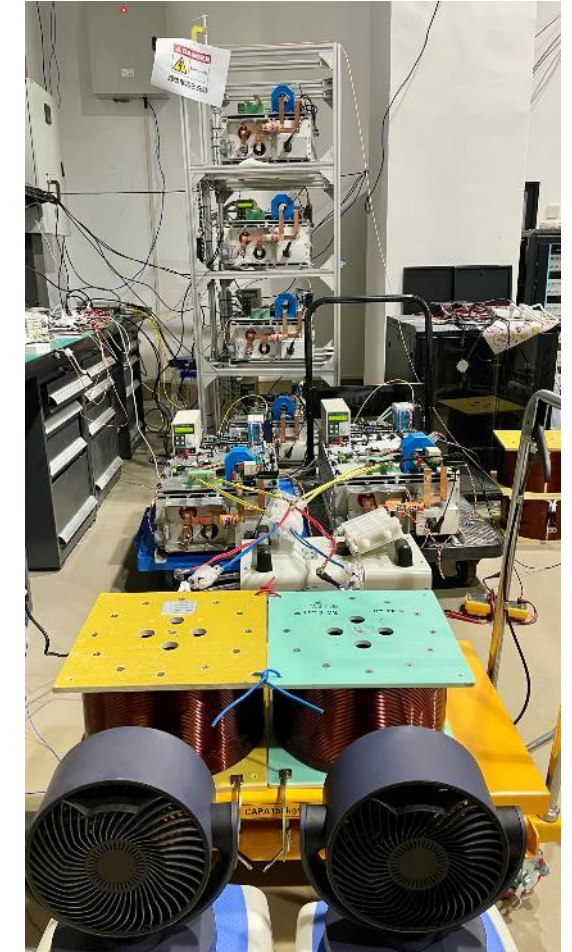
- TF: Supercapacitor + IGBT $\rightarrow$ 1 module
- CS/PF: Electrolytic capacitors bank + IGBT switches
- Under test

- **Preionization**

- Plasma gun
- ECW



Detailed in Mr XIN Tao's poster



TF power supply under test

Outlook

- **Machine assemble**
 - to be finished in two weeks
- **First plasma**
 - expected in this year

