

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ

**If you do not go after what
you want, you will never
have it.**

**If you do not ask, the
answer will always be no.
If you do not step forward,
you are always in the same
place.**



9th Spring Plasma School @ Port Said
2 -5 March 2024

TOKAMAK, STELLARATOR & REVERSED FIELD PINCH

By

Azza Ahmed Talab

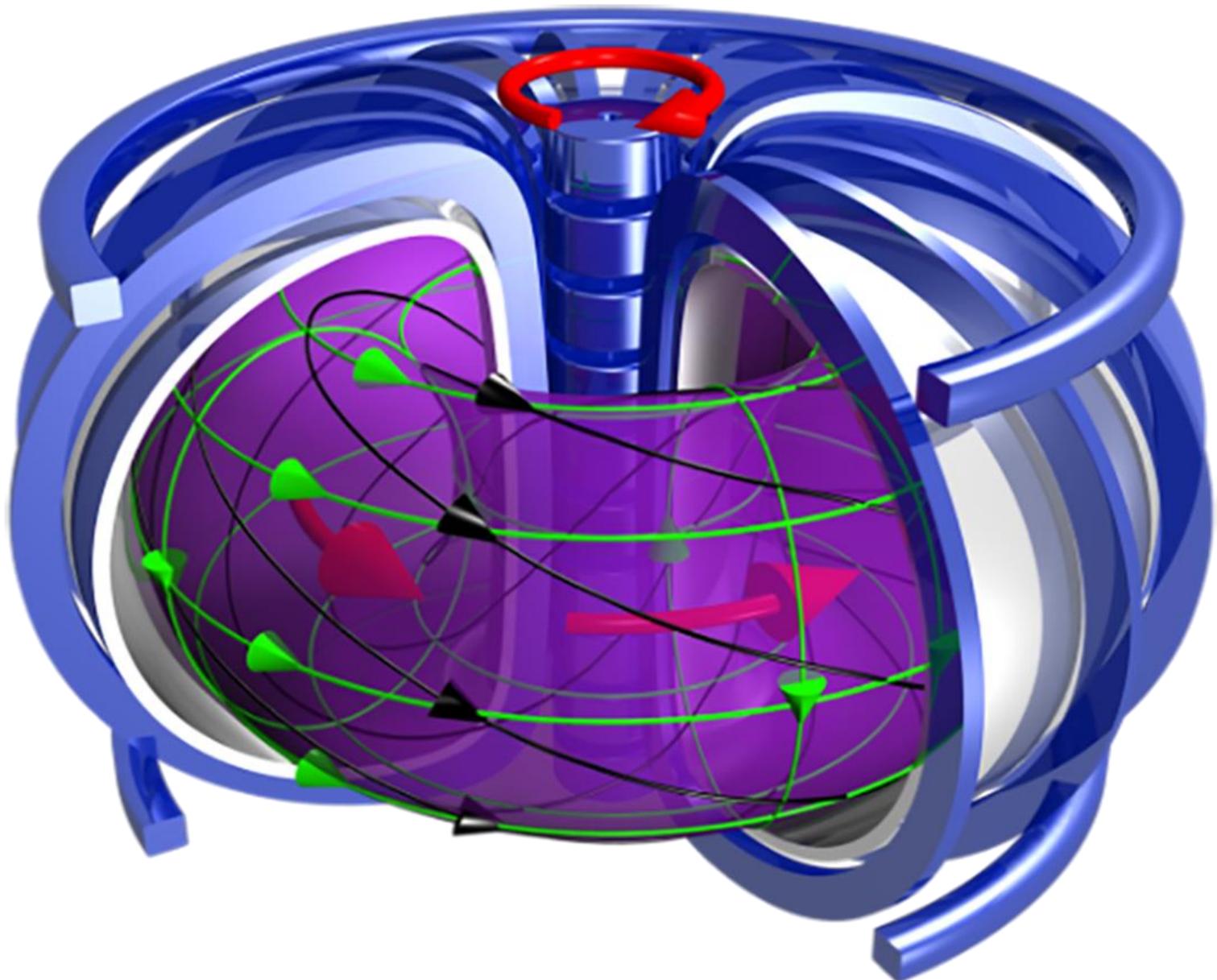
EAEA. NRC, Plasma Physics and Nuclear Fusion Dept. –

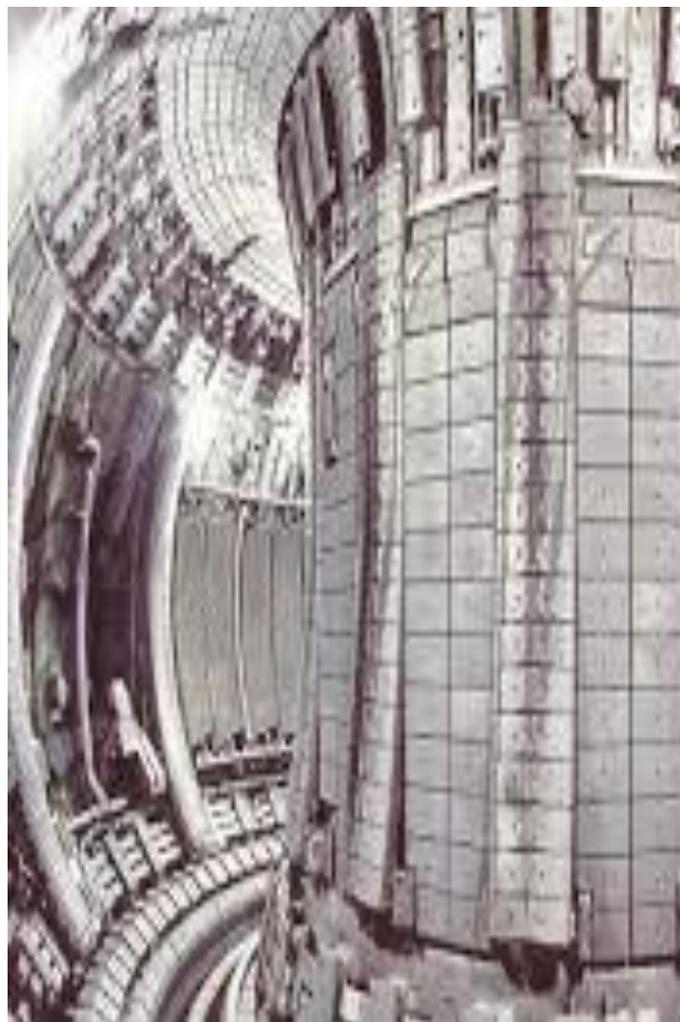
Cyclotron Facility

azza_talab@yahoo.com

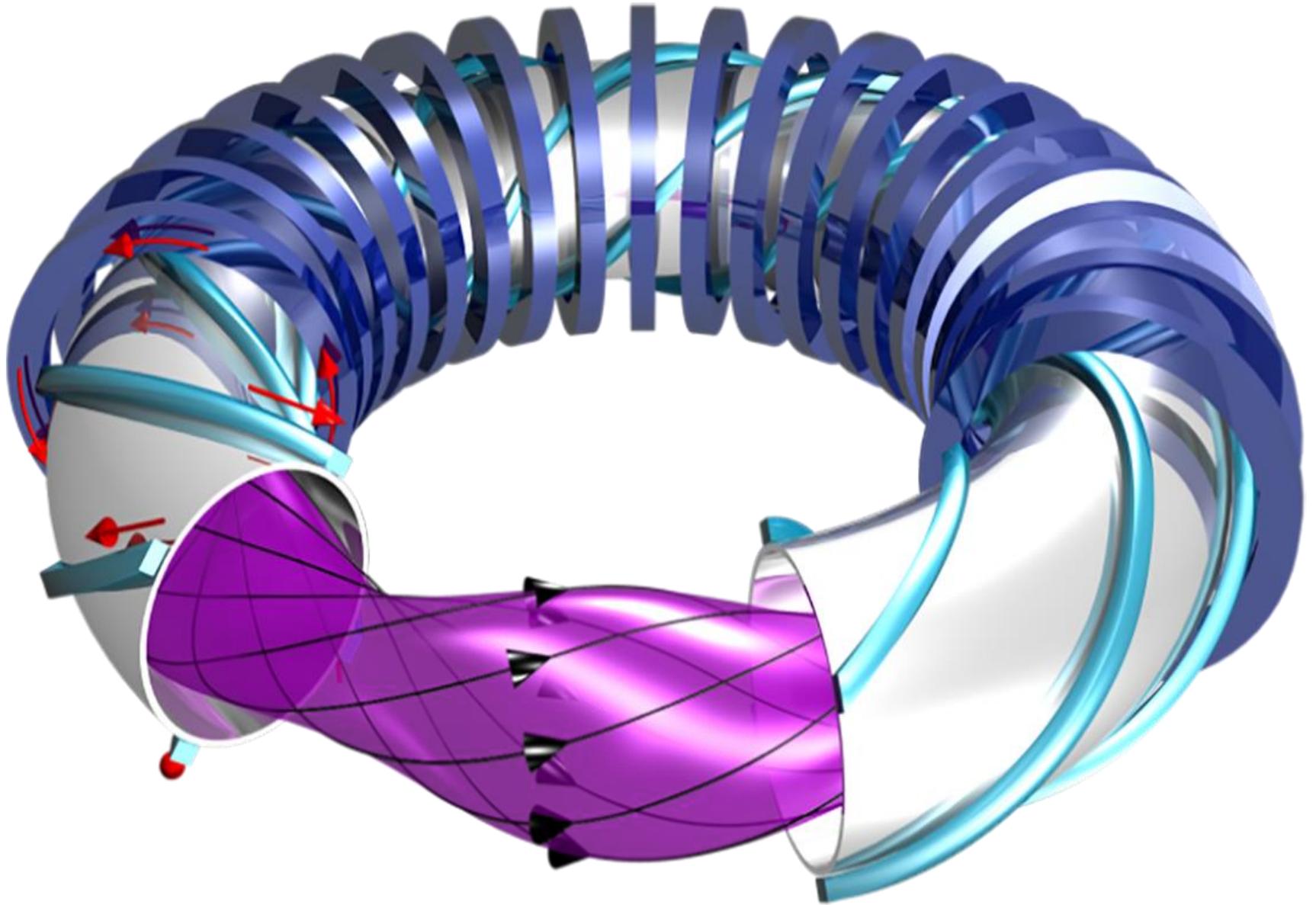
MAGNETIC CONFINEMENT

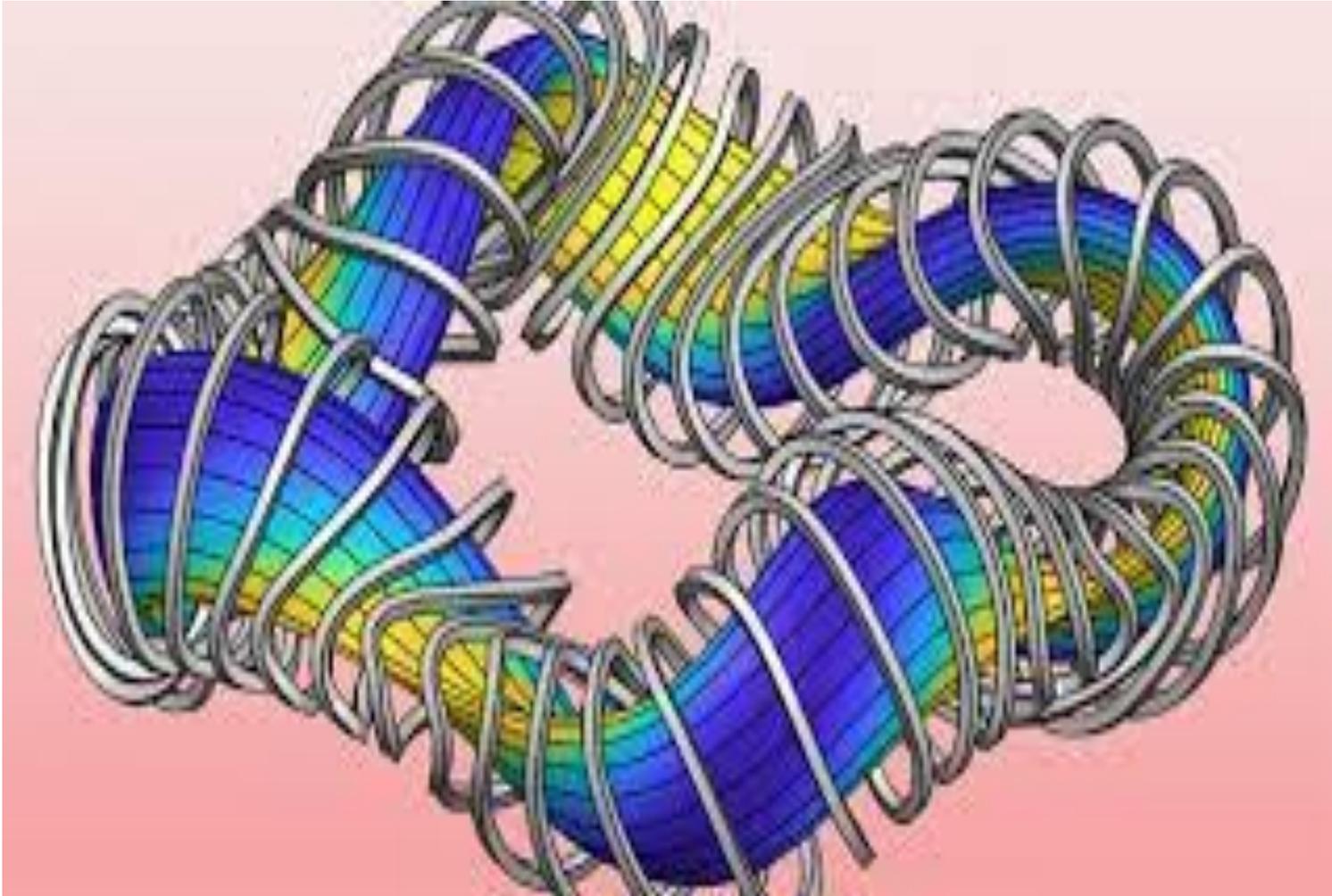
Tokamak



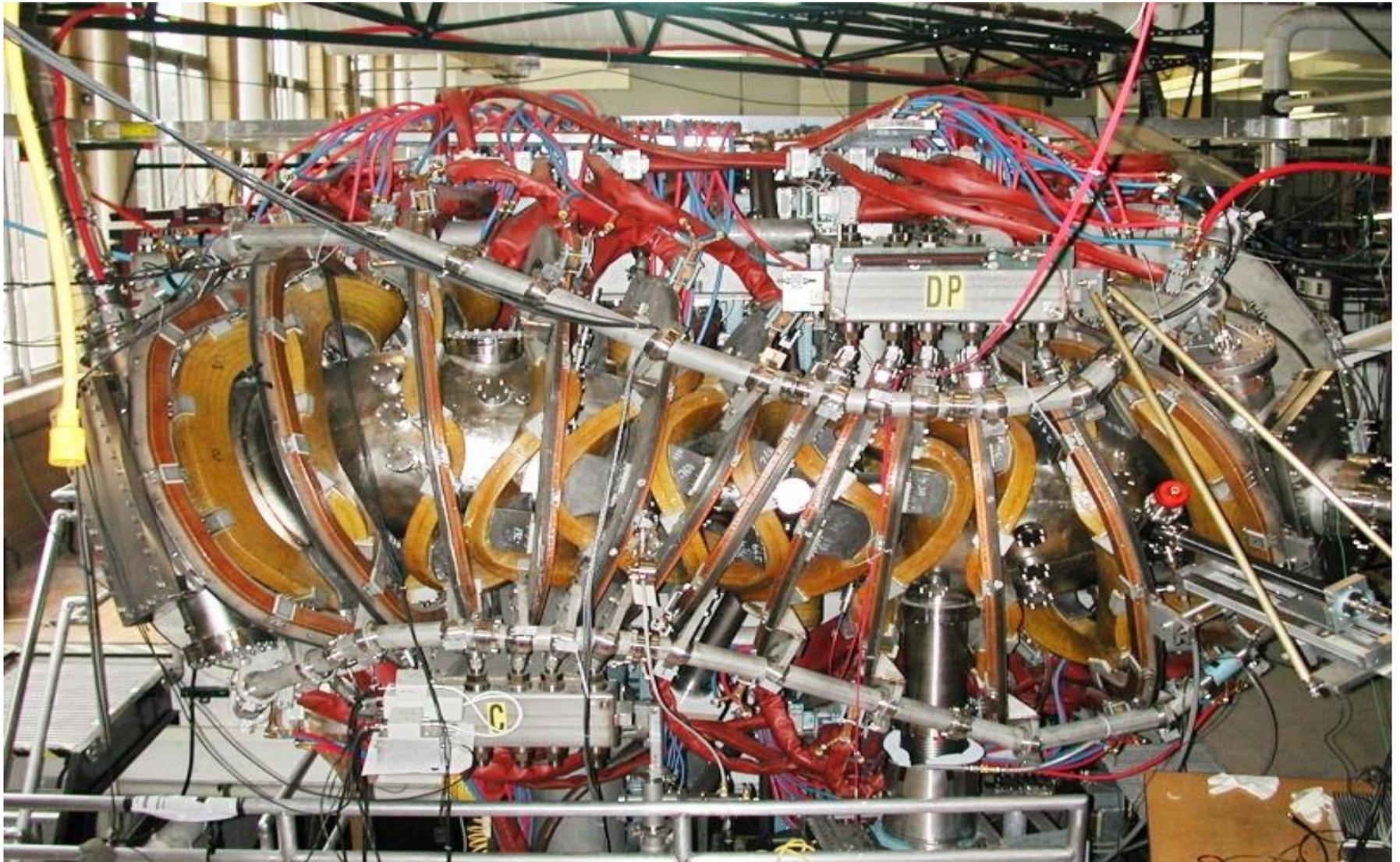


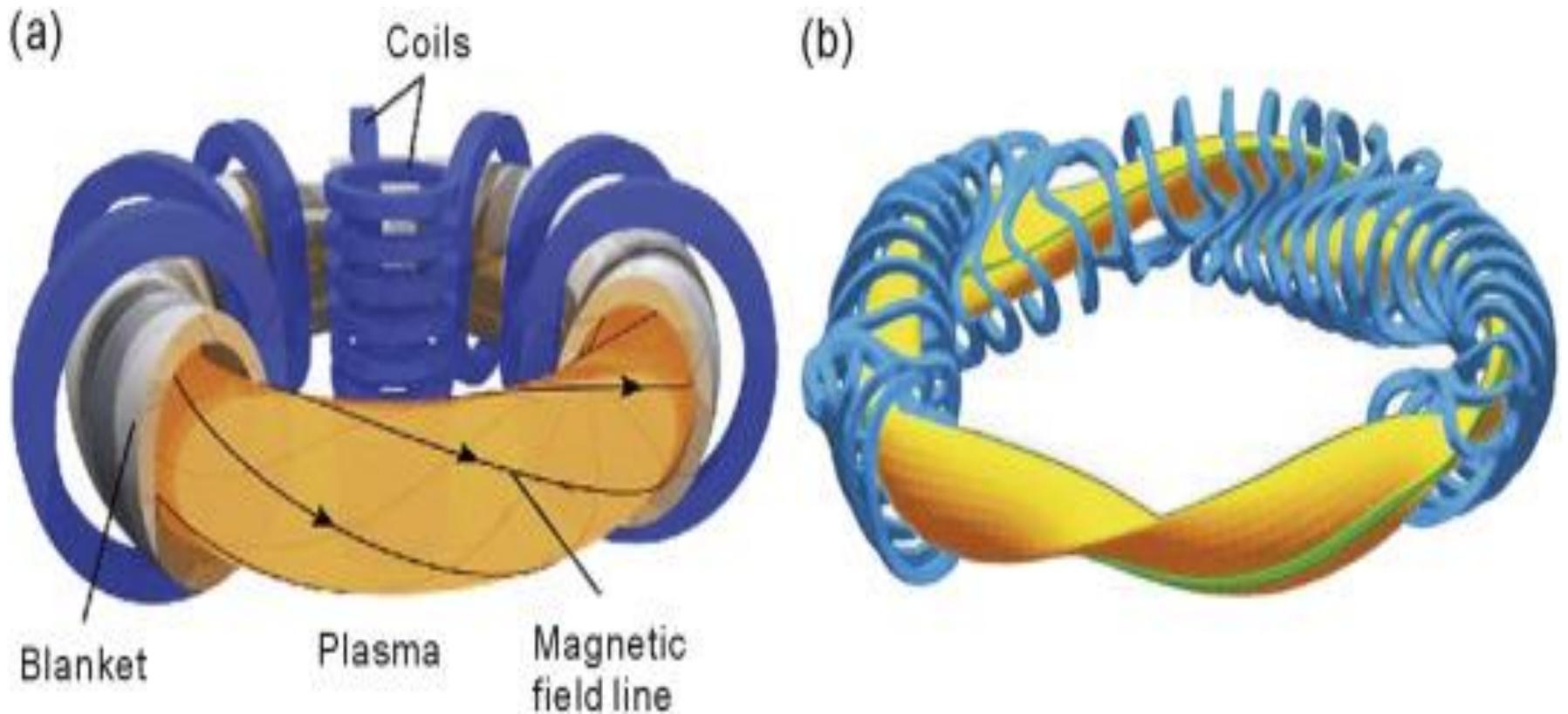
STELLARATOR





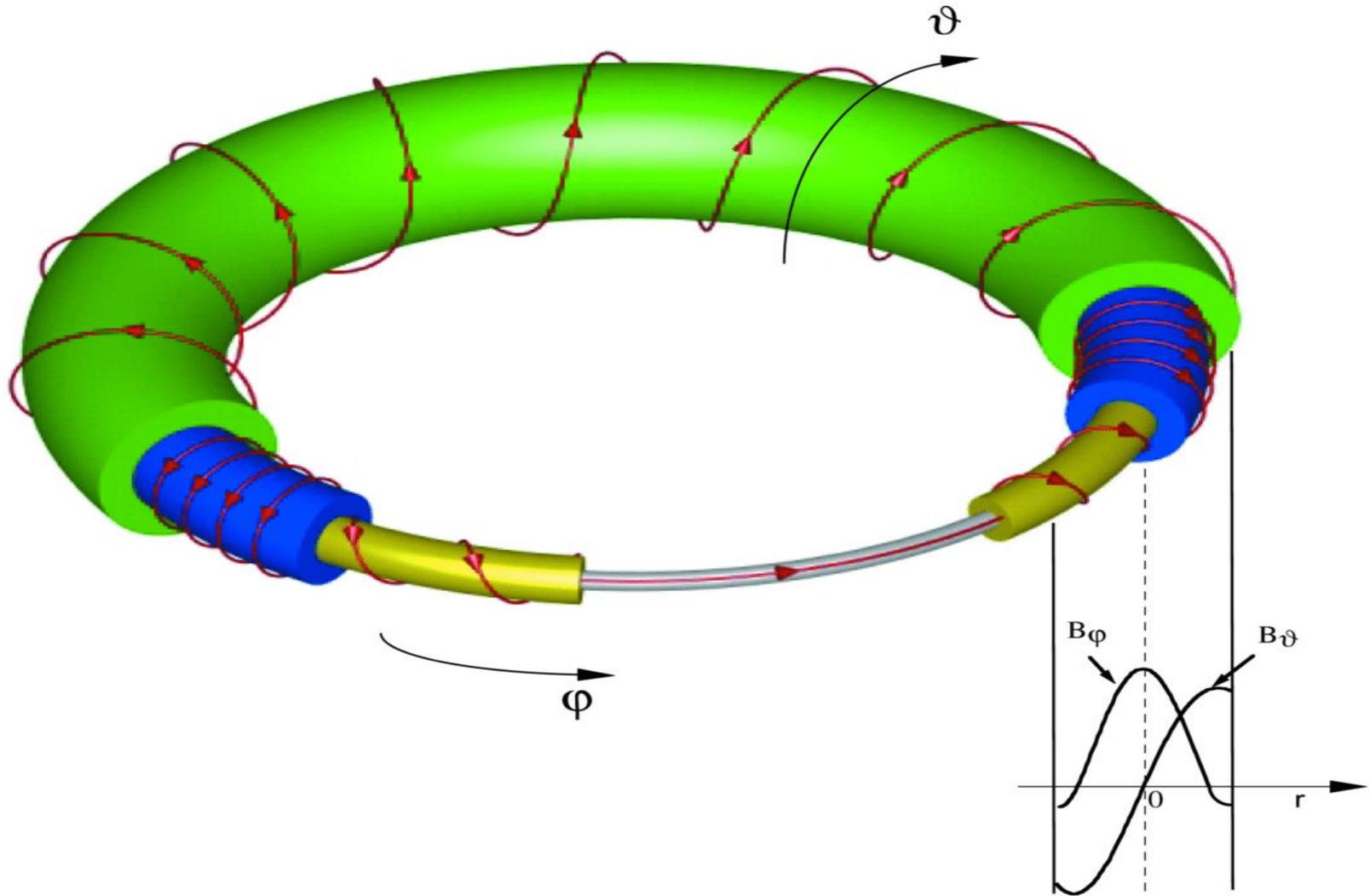
HSX Stellarator

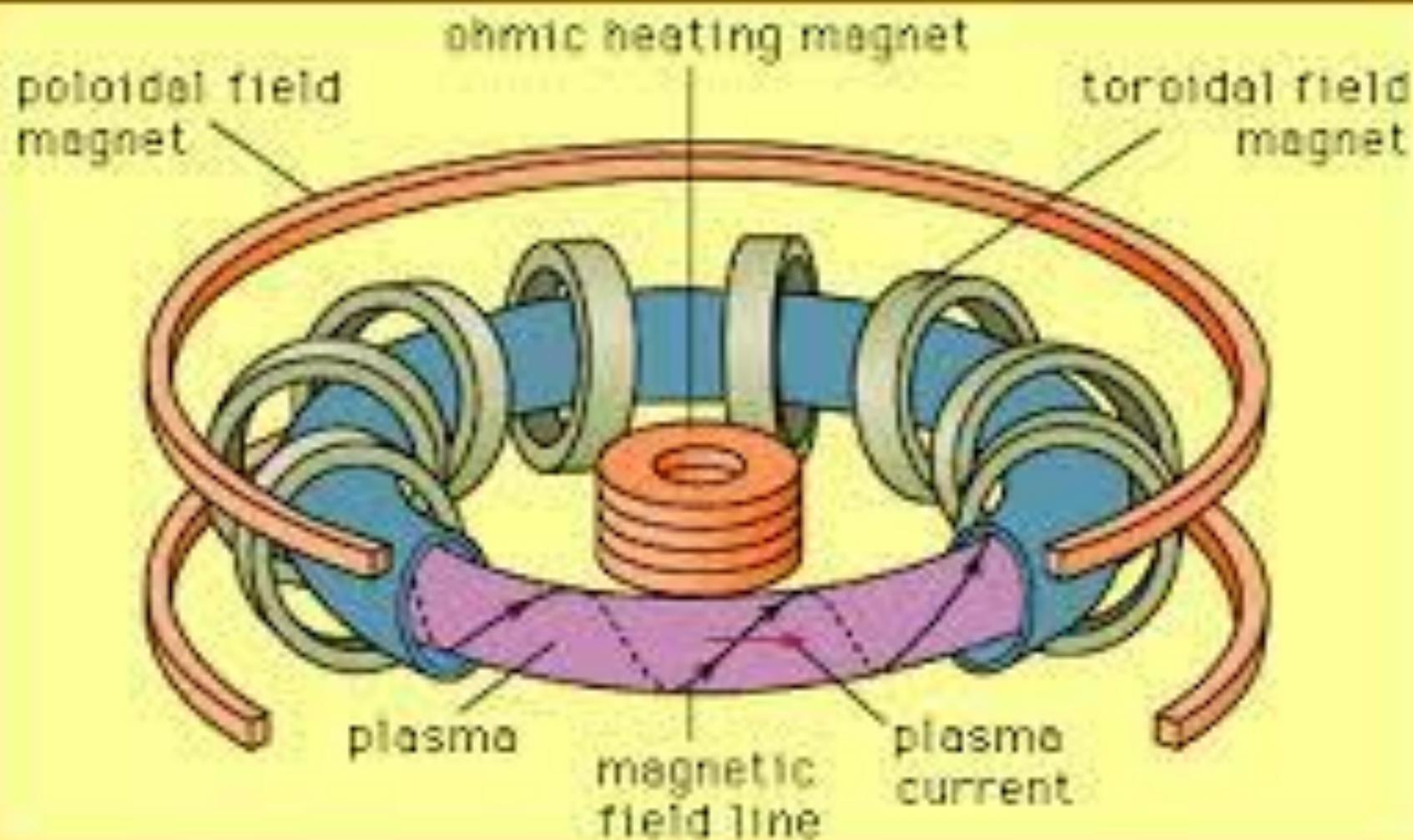




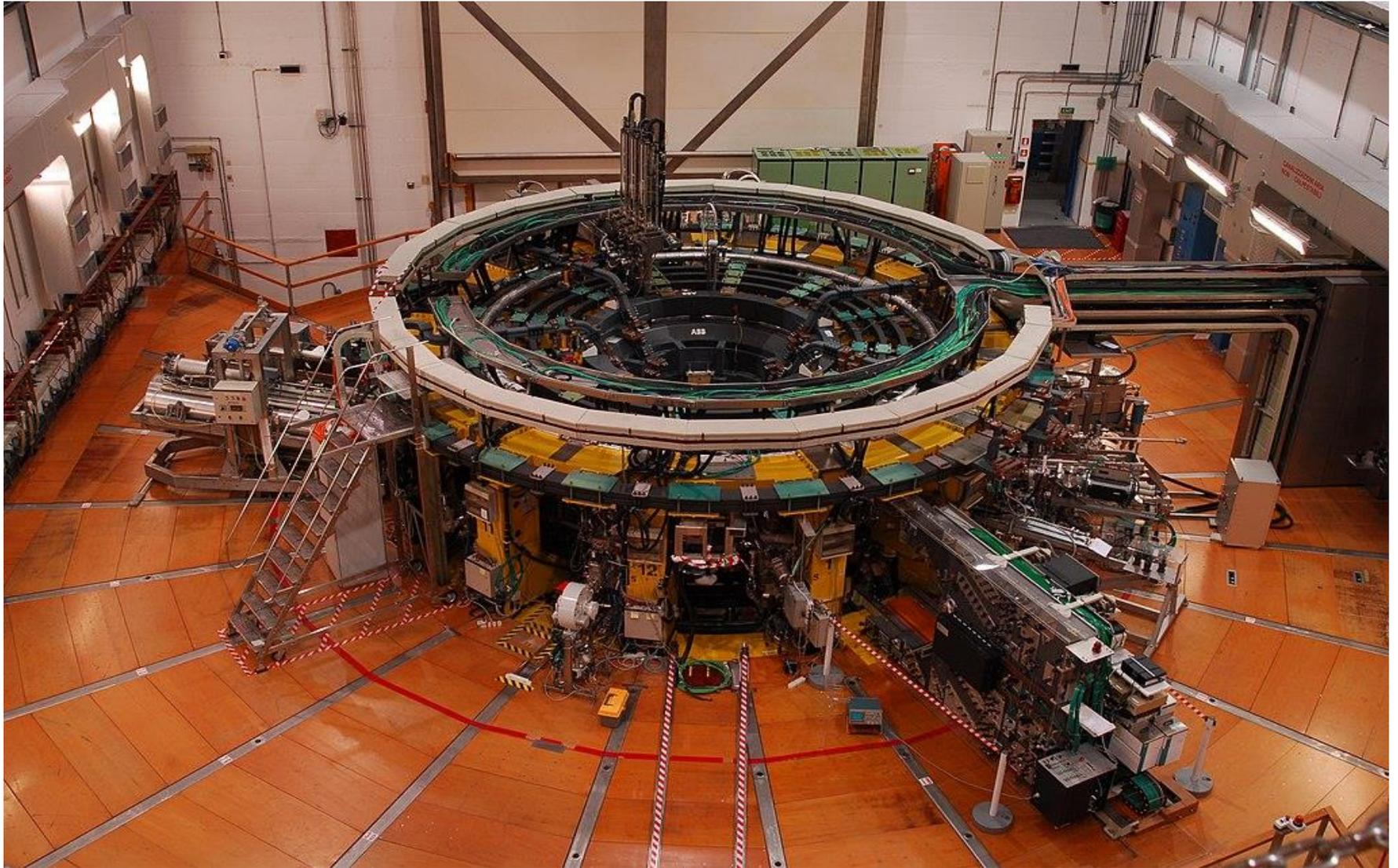
Schematics of magnetically confined plasmas in (a) tokamaks; (b) stellarator configurations. In the tokamak, the rotational transform of a helical magnetic field is formed by a toroidal field generated by external coils together with a poloidal field generated by the plasma current. In the stellarator, the twisting field is produced entirely by external non-axisymmetric coils.

Reversed Field Pinch





RFP in 2007



THANK YOU

