

Fusion fission hybrid systems

1.Principle and brief history of fusion fission hybrid system

Why to develop hybrid reactor? A brief introduction to the basic structure and physical principle of hybrid reactor and its development history.

2.Features of fusion fission hybrid system

Features and functions of hybrid system.

3. Requirements of fusion driver and fission blanket for practical hybrid system

4. Typical concepts of fusion fission hybrid system

4.1 Fusion drivers (Overview, not detail design)

- 4.1.1 Tokamak drivers
- 4.1.2 Spherical tokamak drivers
- 4.1.3 Mirror drivers
- 4.1.4 Plasma-focus drivers
- 4.1.5 Reversed Field Pinch drivers
- 4.1.6 Others

4.2 Fission blanket and fuel cycle (Overview, not detail design)

- 4.2.1 Liquid metal cooled blanket
- 4.2.2 Liquid Molten salt cooled blanket
- 4.2.3 Water cooled blanket
- 4.2.4 Gas cooled blanket
- 4.2.5 Others

5.Critical technical issues for fusion fission hybrid systems

6.Summary and prospect

References