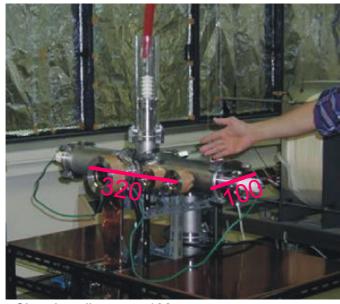
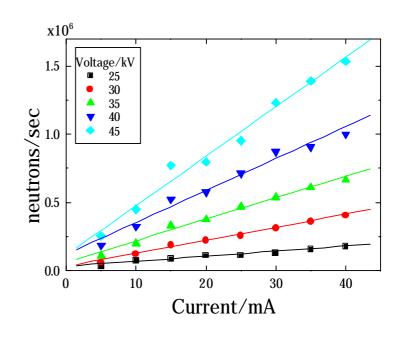


Cylindrical IECF at Kyoto Univ.



Chamber diameter: 100mm

Distance between anodes:320mm



- NPR has increased over 10⁶ neutrons/sec
- Achieve the level of other devices
- Introduction of ECR Ion source is underway



Spherical Device Simulation

Analysis of Spatial Fusion Reaction Distributions in the Spherical IECF Device using a Particle Code

Previous works

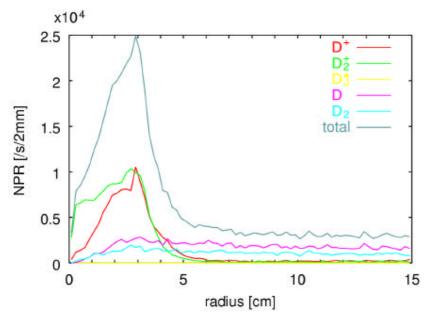
About discharge characteristics

- low *V*, high *P* electron maintain discharge
- high V, low P— energetic neutral maintain discharge
- This year
 - Simulation at various parameters
 - Stabilized and long time simulation steady discharge
 - Implement fusion reaction spatial distribution

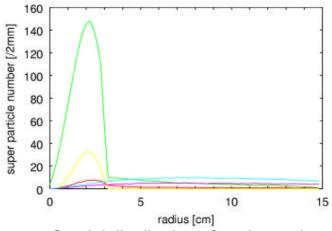


Spatial Fusion Reaction Distribution

6mTorr, 20mA, 47.7kV



- •lons-background peak around the cathode
- •Neutral-background uniformly distributed all over the device



Spatial distribution of each species

