Contribution ID: **418** Type: **Poster**

Plasma start-up studies and electromagnetic field computation for SST-1 tokamak.

Thursday, 20 October 2016 08:30 (4 hours)

The SST-1 start- up studies and development of appropriate model has been initiated using electromagnetic field computation for active current carrying conductor and SST-1 vacuum vessel eddy characteristics. This electromagnetic model has been employed to predict individual electromagnetic field for active electromagnet such as vertical field coil (VF), poloidal field coil (PF), radial control coil (RCC), central solenoid (CS) and other active current carrying coil. This model can be also useful to determine the some other break-down parameter such as connection length, ionization length and electric field etc.

Paper Number

EX/P5-29

Country or International Organization

India

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Session Classification: Poster 5

Track Classification: EXD - Magnetic Confinement Experiments: Plasma–material interactions; divertors; limiters; scrape-off layer (SOL)