Status on Preliminary Disruption Analysis

- Simplified Spark Model of VV used
 - 1017 design at 1.4 m
 - 3 Periods, only NB Ports Included, 0.25" thick Inco 625
- Inductive (Flux Preserving) Solution
 - Plasma current assumed to disappear instantaneously
 - 175 KA Plasma current represented by single filament along axis
 - Diamagnetic Flux not included
- Forces calculated for Full Field (1.7 Tesla)
 - from Coil Field (Modular, TF, PF at S3 state)
 - and Self Field of VV eddy currents
- ANSYS static structural model used to assess results
 - Compared to Vacuum Pressure Results
 - Dynamic Load Amplification not included



Spark Inductive Solution







