



EUROfusion

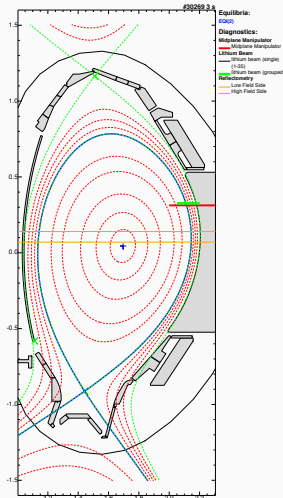
Topic 2 I: AUG experiment

Topic 2 I Scientific Team

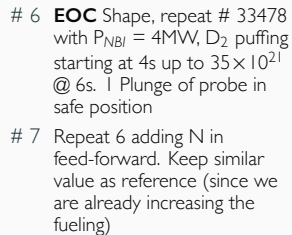
24 April 2017



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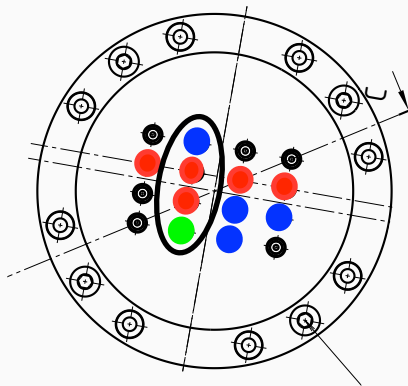


- # 1 **EOC** Shape, 0.8MA, $B_\phi = -2.5$ T, 0.5MW NBI heating, fueling as reference 30269, heating starting together with fueling
- # 2 Same density ramp and heating with $I_p = 0.61$ MA, $B_\phi = -1.9$ T (reduced current with the same q_{95})
- # 3 Same density ramp and heating with $I_p = 0.99$ MA, $B_\phi = -3.1$ T (increased current with the same q_{95})
- # 4 Same density ramp and heating $B_\phi = -2.5$ T and $I_p = 0.99$ MA
- # 5 Same density ramp and heating $B_\phi = -2.5$ T and $I_p = 0.61$ MA





- ☒ Midplane Manipulator
- ☒ Li-Beam profiles (inter-ELMs one in the H-Mode shots) and fluctuations
- ☒ RFA #2
- ☒ Divertor probes. Evaluation inter-shot of profiles and rollover density. Divertor collisionality
- ☒ Neutral profiles
- ☐ Infrared for probe head monitoring
- ☒ Reflectometer including the multi-channel one for the operation at 1.9 T
- ☐ Bolometer/AXUV in the divertor region. We need the monitoring of radiation front movement. Can we get inverted and tomography inter shot?
- ☐ Gauges and neutral measurement
- ☒ SXR



- ✓ Ion saturation current
- ✓ Floating potential
- ✓ Swept probe for T_e and n_e
- ✓ Intershot analysis for blob-size, autocorrelation