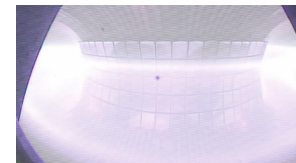


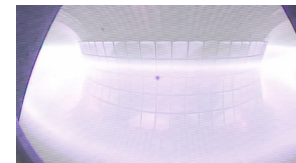
Timeline FTU 2019 C1-B week 21



Date Day	Program #1 Program #2 BT(T) / Ip (kA) / ne20(p m ⁻³) EC (kW)	SC 1 / Dep 1 SC 2 / Dep 2 RdO 1 / RdO 2 PiC 1 / PiC 2	Pulses
20/05/2019 Monday	No operation No operation --- / --- / --- ---	--- / --- --- / --- --- / --- --- / ---	
21/05/2019 Tuesday	No operation EC assisted start-up 2.5-5.3 / 350-500 / 0.3-0.8 400	--- / --- G. Granucci / D. Ricci S. Ceccuzzi / A. Romano G. Pucella / C. Meineri	42844-42854
22/05/2019 Wednesday	EC assisted start-up EC assisted start-up 2.5-5.3 / 350-500 / 0.3-0.8 400	G. Granucci / D. Ricci G. Granucci / D. Ricci O. D'Arcangelo / M. Baruzzo P. Buratti / C. Meineri	42855-42881
23/05/2019 Thursday	EC assisted start-up W/Y LBO injection 5.3 / 500-700 / 0.5-0.8 400-800	G. Granucci / D. Ricci Carraro/Gabellieri / Bombarda /Romano G. Ramogida / M. Baruzzo F. Napoli / G. Apruzzese	42882-42909
24/05/2019 Friday	Waves by REs Waves by REs 2.5-5.3 / 250-700 / 0.2-1.0 ---	P. Buratti / C. Castaldo P. Buratti / C. Castaldo O. Tudisco / F. Cordella F. Bombarda / M. Marinucci	42910-42933

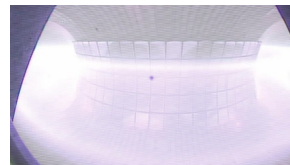
<https://ftuwiki.frascati.enea.it>

Timeline FTU 2019 C1-B week 22



Date Day	Program #1 Program #2 BT(T) / Ip (kA) / ne20(p m ⁻³) EC (kW)	SC 1 / Dep 1 SC 2 / Dep 2 RdO 1 / RdO 2 PiC 1 / PiC 2	Back-up programs
27/05/2019 Monday	No operation Restart --- / --- / --- ---	--- / --- --- / --- S. Ceccuzzi / G. Ramogida --- / ---	
28/05/2019 Tuesday	Runaway Electrons Runaway Electrons 4.0-5.3 / 300-700 / 0.1-0.7 400-800	D. Carnevale / L. Boncagni D. Carnevale / L. Boncagni O. Tudisco / M. Iafrati C. Cianfarani / C. Mazzotta	Liquid Metal Limiters
29/05/2019 Wednesday	Liquid Metal Limiters Liquid Metal Limiters 5.3-5.6 / 360-700 / 0.2-0.6 400-800	G. Mazzitelli / M. Iafrati G. Mazzitelli / M. Iafrati F. Cordella / M. Baruzzo F. Napoli / C. Castaldo	Runaway Electrons
30/05/2019 Thursday	TM pre-emptive stabilization TM pre-emptive stabilization 5.3-5.6 / 350-700 / 0.5-3.0 400-800	G. Pucella / E. Alessi G. Pucella / E. Alessi O. D'Arcangelo / C. Di Troia P. Burattii / V. Fusco	W LBO injection
31/05/2019 Friday	Impurity injection Double Tearing Modes (tbc) / / 0.2-1.0	C. Mazzotta / G. Pucella G. Pucella / P. Buratti S. Ceccuzzi / A. Romano V. Fusco / E. Giovannozzi	Y LBO injection

Programs – week 22



F18 Runaway Electrons control and mitigation (D. Carnevale, L. Boncagni)

Move the RE beam in the vacuum vessel to assess its controllability (comparison with TCV). Investigation about the capability to re-create a thermal plasma starting from a post-disruption RE beam.

F02 Liquid Metal Limiters (G. Mazzitelli, M. lafrati)

Investigation of the liquid tin limiter in presence of high heat loads for longer pulses and improved diagnostic capabilities. The experiments will be focused on a more quantitative determination of plasma contamination, tin transport mechanisms and scrape-off layer characterization.

F15 TM pre-emptive stabilization (G. Pucella, E. Alessi)

Studying the possibility to stabilize tearing modes near the density limit by means of a direct heating of the rational surfaces, so allowing operations above the ohmic density limit, which could be important for burning tokamaks.

F04 Impurity injection (C. Mazzotta, G. Pucella)

Understand the transport mechanism that leads to spontaneous density peaking when plasma is doped by Neon and Helium. A characterization of doped plasma should be completed in order to set the parametric dependence in I_p , BT, density, amount of impurity and species.