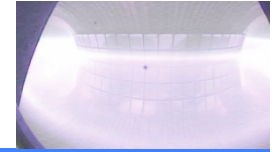


Settimana 27
Programma F17
TM stabilization by ECW

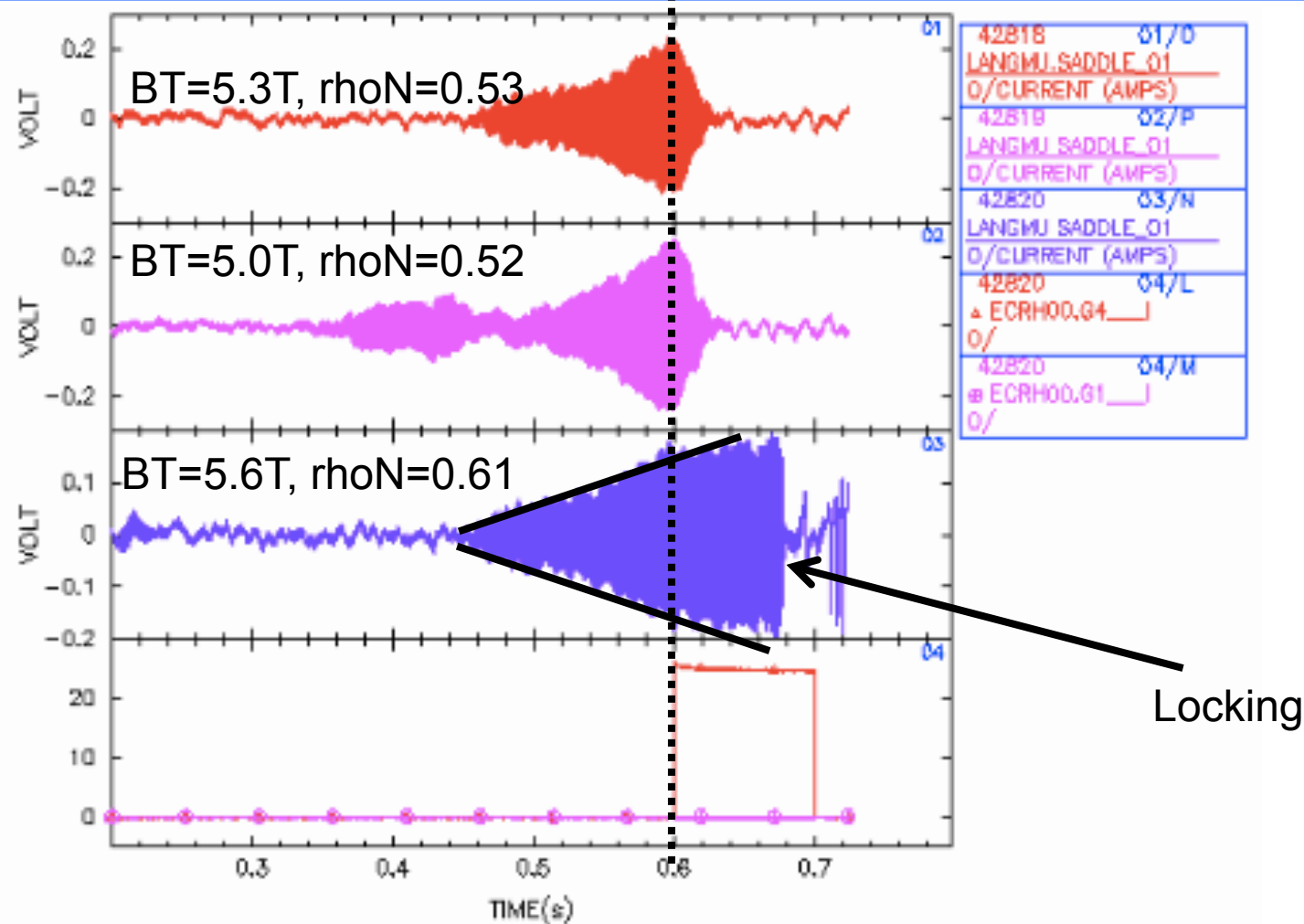
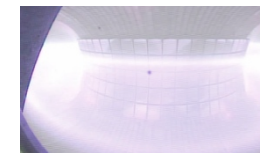
E.Alessi, G.Pucella

Summary



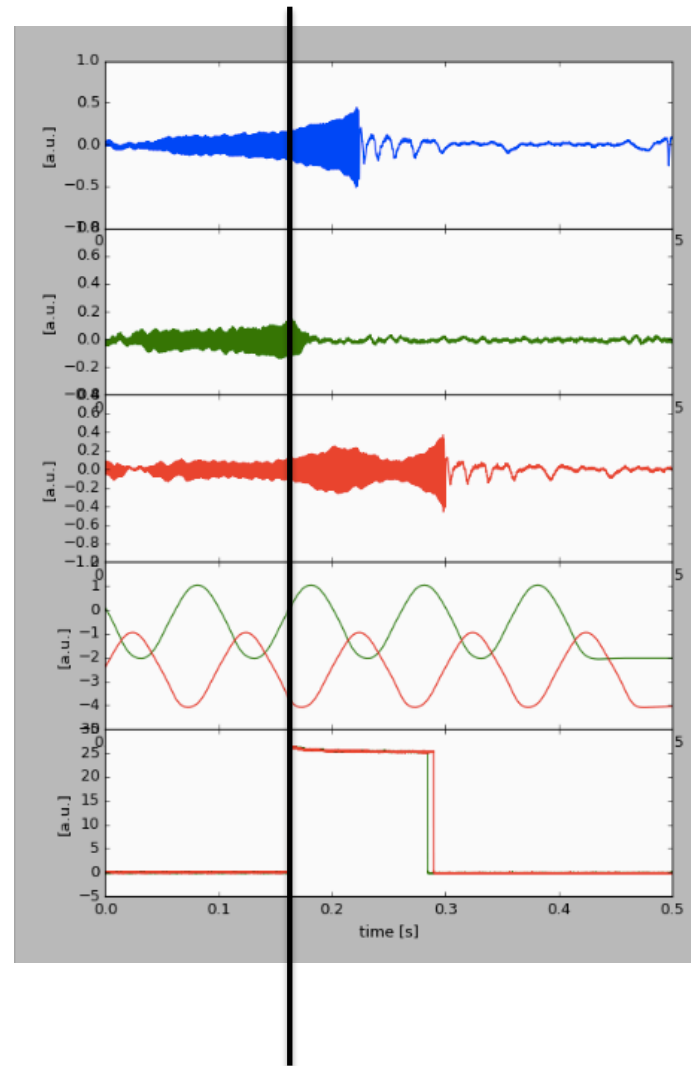
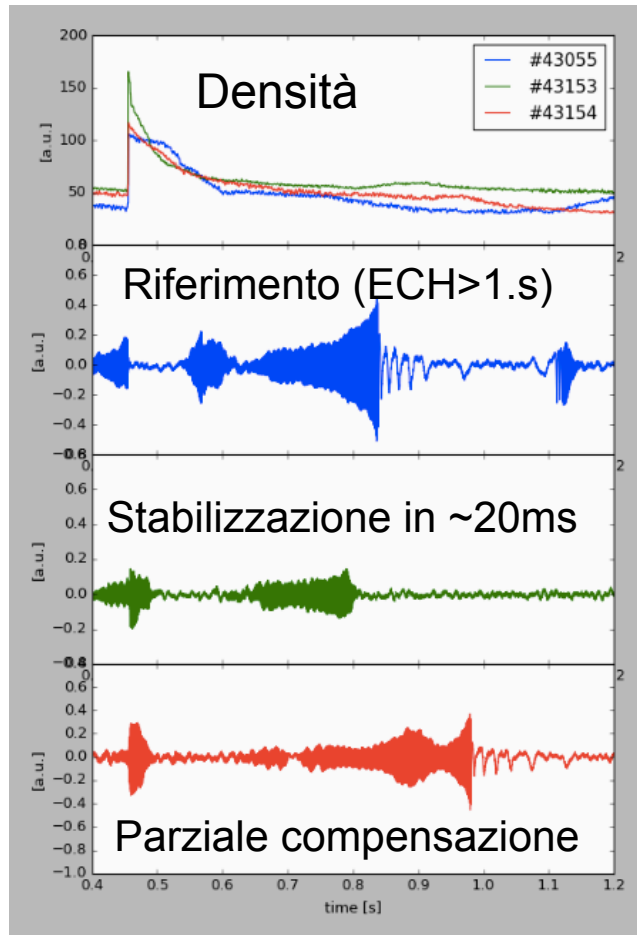
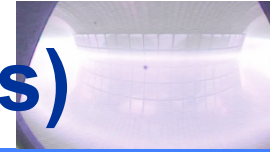
- Obiettivi:
- Studiare l'efficienza della stabilizzazione con tecnica di sweeping intorno alla $q=2$ in differenti fasi del TM (pre-emptive, crescita lineare, Modo locking).
- Giornate: **03/07/2019**.
- Spari utili anche in :
 - 16-17/05/2019 (ECH restart)
 - 26/06/2019 (CTS)
- Scenario:
- $\sim 5\text{-}5.6\text{T}$ (ref. at 5.3T), $I_p=500\text{kA}$, $n_e \sim 0.5 \cdot 10^{20} \text{ m}^{-3}$, pellet at 0.45s (TM trigger)

Stabilizzazione ECRH fisso (varia Bt)



Sotto ipotesi lanciatore posizione nominale, il beam tracing su scarica simile a 5.3 T, $n=0.6 \cdot 10^{20}$, (#42818) si ottiene $\rho N=0.57$.

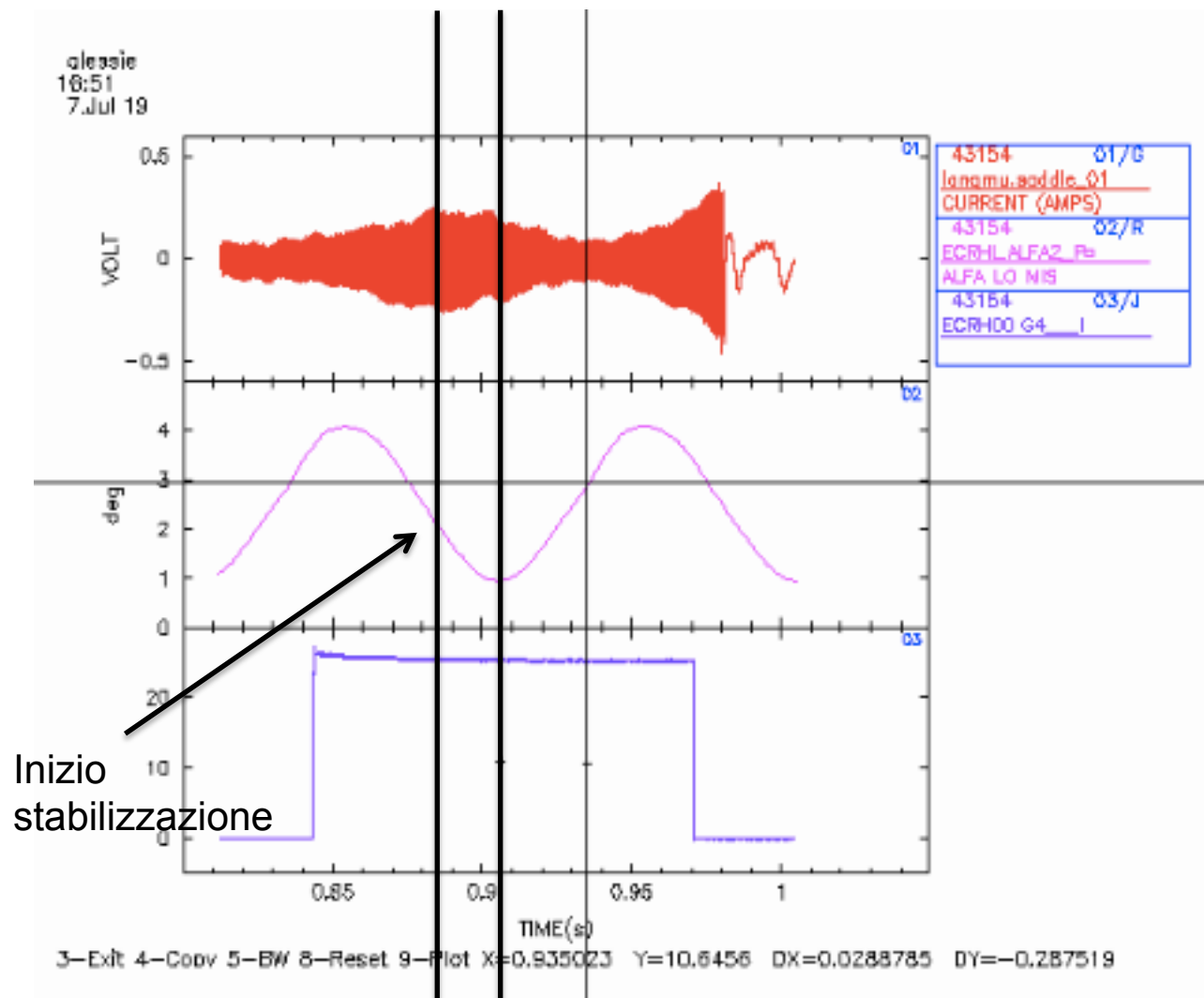
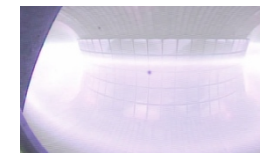
EC sweeping (5.3T, 500kA, pellet at 0.45s)



43055:
Reference da
CTS. Anche ECH
sun modo locked
(ECH on at 1.s)

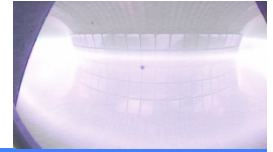
Gradi (invertiti):
<0 indicano
deposizione più
esterna

Position <-> effects (43154)



L'effetto stabilizzante inizia (e finisce) a ~ 3cm di distanza dall'isola (tra 0 e-1 deg).

Osservazioni



- Ritardo effetti (Attesi) \leftrightarrow posizione in 43154
- Completare con analisi a posizione fissa per casi *pre-emptive*, *mode locking*.