ACT2: JET current ramp up/down modelling

G.M.D. Hogeweij[1], F. Köchl, …..

Outline: - *Concentrate for the moment on RD*
- *Found case with strong W accumulation*

RD

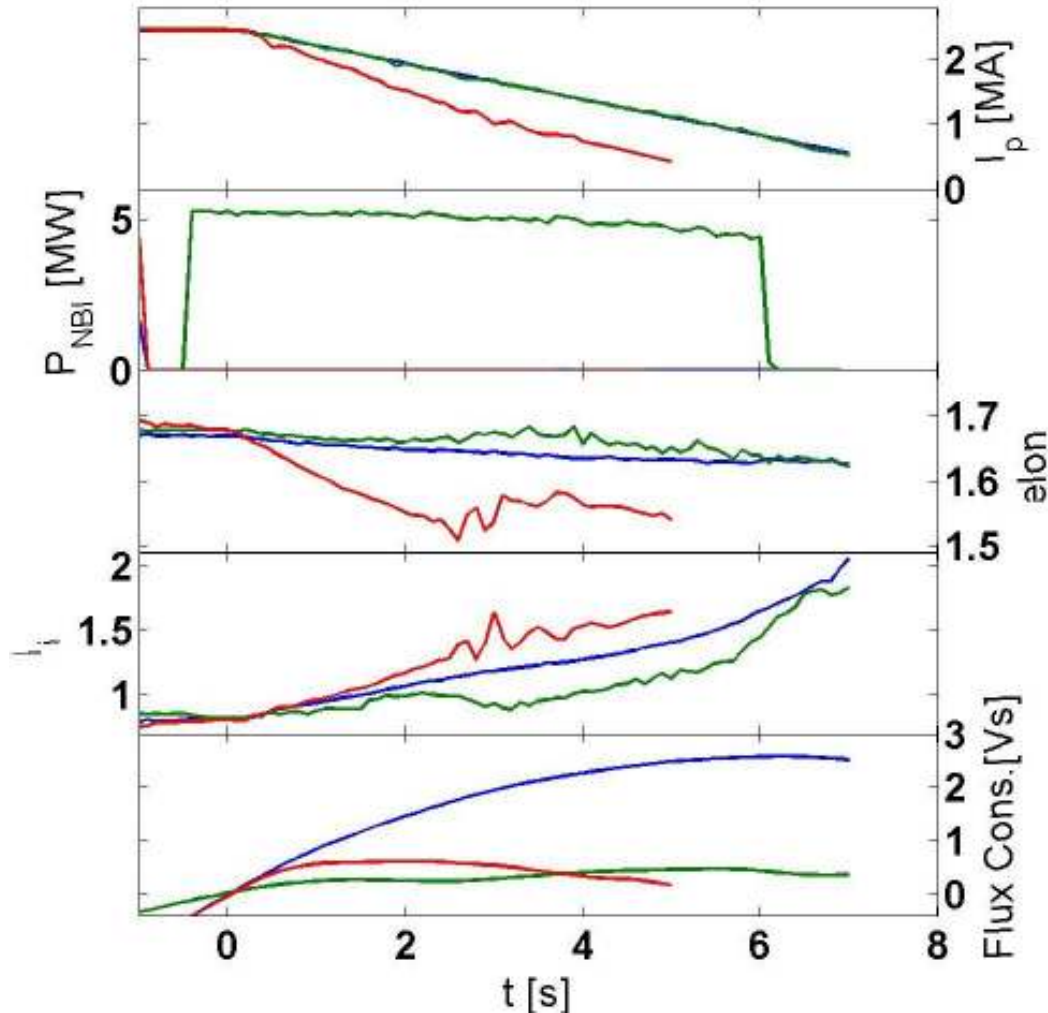| shot	aim of ramp-down	realized shot	ref.shot	dIp/dt	elong (1)
no		RD	RD	RD	RD
				MA/s	
1	reference ohmic ramp-down	83224	72203	.28	1.7
2	reference H-mode ramp-down	83225	72242	.28	1.7
3	Study effect of variation of RD rate on li and flux cons. during ohmic RD after H-mode FT	83226	74396	.55	1.7
4	Study effect of elongation on li and flux cons during ohmic RD after ohmic FT at dI/dt=.5	83446	72459	.5	1.6
		83447	72462	.5	1.5
		83449	72204	.5	1.7
5	Effect of variation of RD rate on li and flux cons. during H-mode RD after H-mode FT	83450		0.28	1.7
		83451	72209	0.14	1.7

C ←→ ILW:
Ohmic:
73203 - 83224
H-mode
72242 – 83225

➢ Ohmic ←→ H-mode: 83224 - 83225
➢ Varying RD rate ohmic: 83224 – 83449 / H-mode: 83450 – 83451
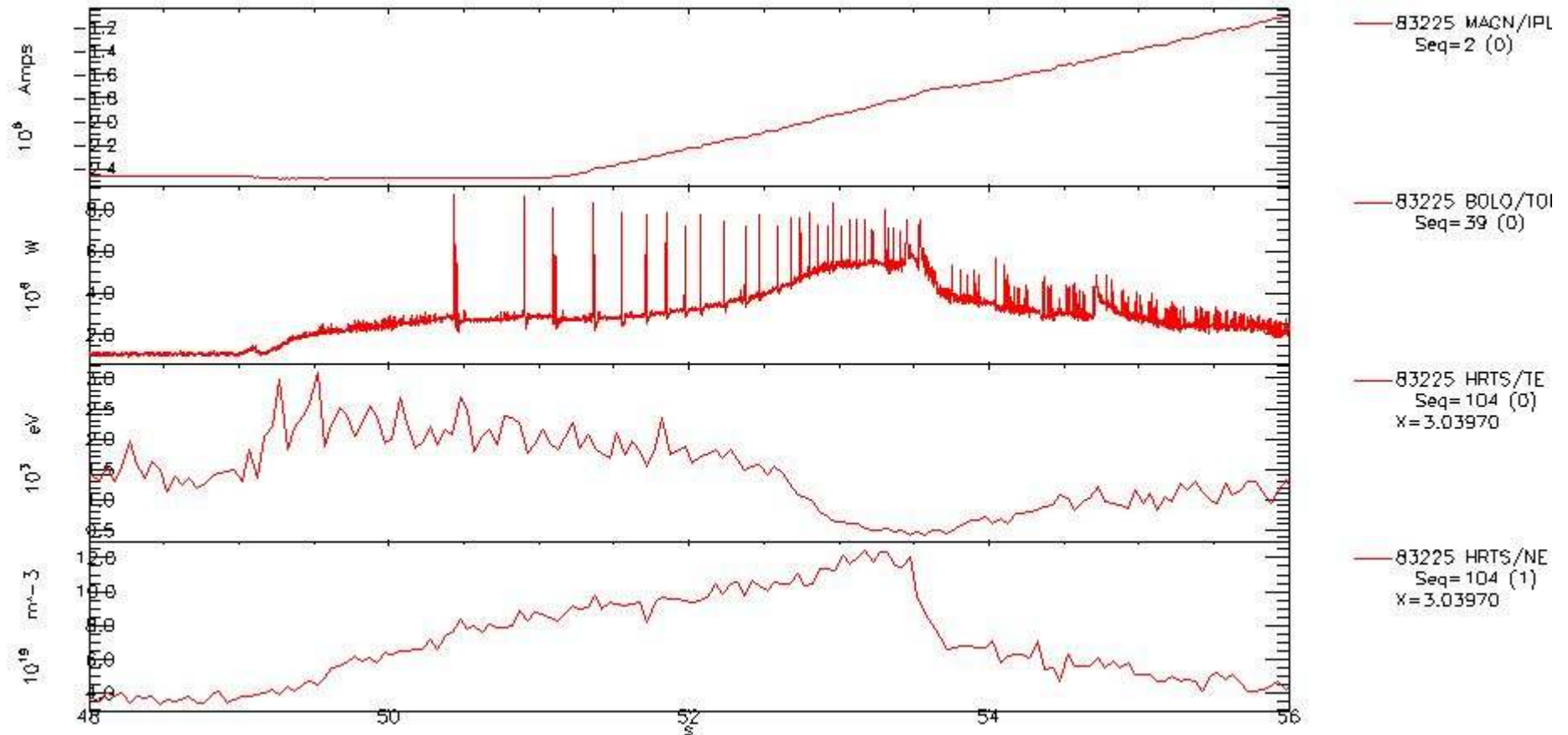➢ Elongation reduction: 83449 – 83447
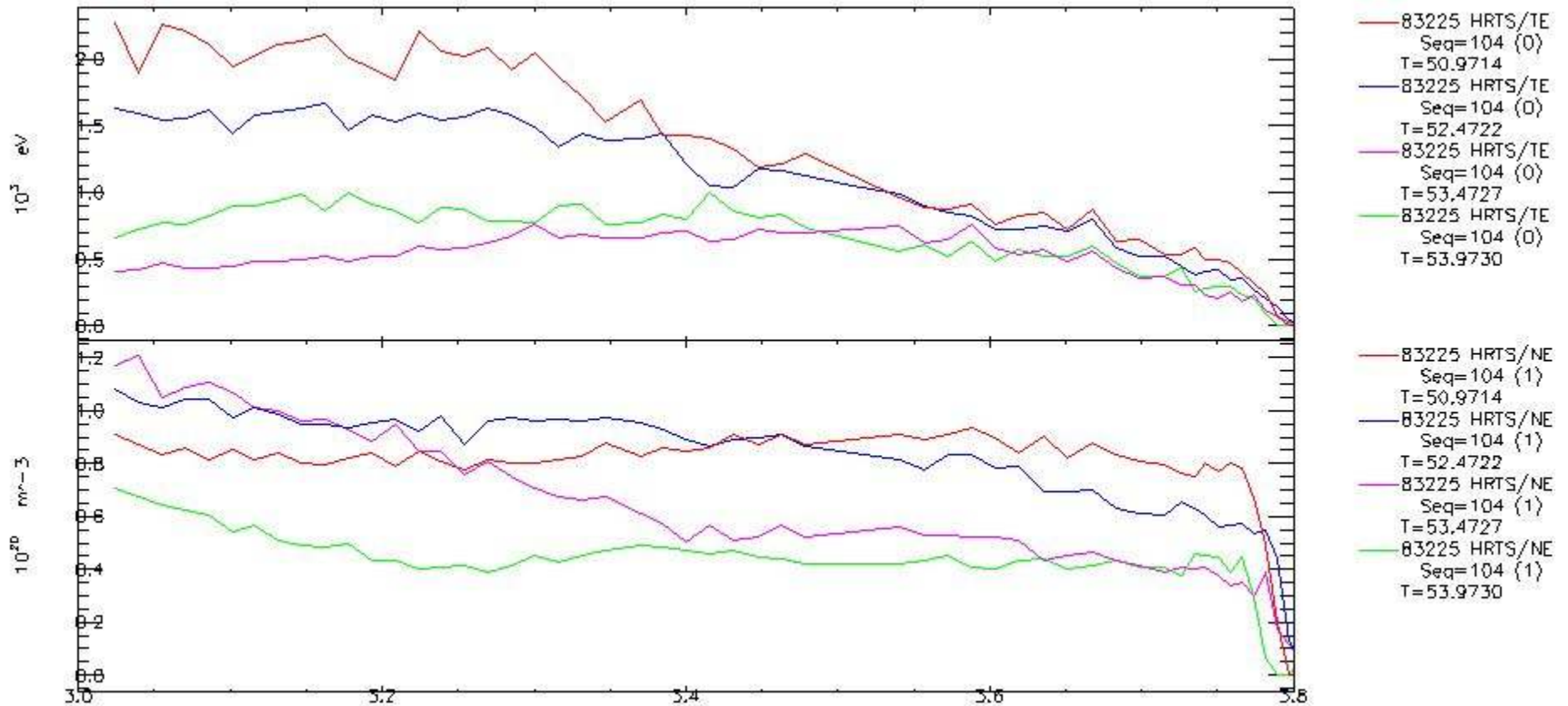
Interpretative CRONOS:

Blue: Ref Ohmic 83224

Green: H-mode 83225

Red: Higher RD rate ohmic and

    elongation reduction: 83447

83225: Prad up to 6 MW;
Te(0) down to 0.6 keV
Extremely high density
Suprising fast recovery

Te and ne profiles from HRTS

Will ask Florian to do his W transport modelling for this case