

NSTX PSI-5 Shot List '04 ver. 24

sz 8/31/04

* = mpeg made

NSTX Shot #	time msec	frame μ sec	puff msec	shot type	Quality *=mpg	Max /med	Comments
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[PSI-5 camera first NSTX shots starting here](#)

[1/27/04 NO FILTER, He puff, original alignment of 85 mm lens, D plasma, 50% beamsplitter](#)

111085	200	5	-	OH	B	1600	blobs moving down and out
110986	200	5	-	OH	B	1600	blobs down, bright spot @ end
110987	260	5	-	OH	B	1600	dim blobs moving down
110989	350	5	-	OH	B	1600	dim down moving blobs
110900	350	5	300/20	OH	B	1600	dim but lots of blobs
110993	300	5	260/20	OH	A*	3800/2	bright and lots of blobs
110994	300	5	260/20	OH	A*	3600/2	bright and lots of blobs
110995	300	5	260/20	OH	B	2500	quieter, farther inward
111006	200	5	-	OH	B	1600	dim with blobs
111008	200	5	-	OH	B	1600	dim with blobs

[1/30/04 NO FILTER, Helium puff, original alignment, D plasma, 50% beamsplitter](#)

111057	200	5	-	OH	B	1600	dim, fairly diffuse blobs down and out
111060	220	5	-	OH	B	1600	dim, fairly diffuse blobs down and out
111064	220	5	-	NBI/L	A	2000	brighter, blobs with speckles from NBI
111066	220	5	-	OH	B	1600	blobs moving down and out

[2/2/04, NO FILTER, D puff, D plasma, mirror not beamsplitter](#)

111074	270	5	-	OH	B	1600	pushed in, H-like blobs
111076	260	4	-	OH	B	1600	very uniform, after disruption
111078	100	4	-	NBI/L	A	2000	complex structure, speckles
111080	100	4	-	NBI/L	A	2000	complex structure, speckles
111081	100	4	-	NBI/L	B	2000	complex structure, speckles
111083	100	4	-	NBI/L	A	2000	complex structure, speckles
111085	100	4	-	NBI/L	A	2000	complex structure, speckles
111095	320	4	280	NBI/L	A*	3200/3	lots of blobs with puff, bright
111096	320	4	280	NBI/H	A*	3200/3	H-mode with layers + blobs, bright
111100	320	4	280	NBI/L	A*	3500/3	H-mode with MHD + helix
111103	320	4	280	NBI/L	A	3000	beautiful complex pattern after disrupti

[2/3/04, NO FILTER, D puff, D plasma, mirror not beamsplitter](#)

111115	130	10	-	NBI/L	C	3000	plasma looks far in, mhd problems
111116	130	10	-	NBI/L	B	3000	better, still plasma far in
111118	200	10	-	NBI	C	3000	during major disruption, very uniform

NSTX Shot #	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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2/4/04, NO FILTER, D puff, D plasma, mirror not beamsplitter

111124	200	5	-	NBI/H	B	1800	H-mode with waves
111127	221	5		NBI/L	A	2500	H-mode with waves, UFO at left
111132	180	5	-	OH	B	2000	complex pattern, filaments on field line
111133	180	5	-	NBI/H	A*	2600/3	quiet H, then waves and H-L
111134	180	5	-	NBI/L	A	2000	complex patterns
111138	180	5	-	NBI	A	2000	complex patterns
111139	107	10	-	NBI	A*	3300/3	L-H mode caught
111140	107	10	-	NBI	A*	3300/3	H with intermittent blobs
111141	105	10	-	NBI	A*	3300/3	L with diffuse blobs
111142	105	10	-	NBI	A*	3300/3	L-H-L transition
111143	104	16	-	NBI	A*	5000/3	H-L-H with giant blobs (sep @ 105 ms)
111144	104	16	-	NBI/L	A*	5000	L with big blobs (undersampled)

2/5/04, Fred's D-alpha filter (1.5 nm), D puff, D plasma, mirror not beamsplitter

111148	104	10	-	NBI/L	A	2500	blobs moving out and down
111149	137	10	-	NBI/L	B	2500	blobs, vessel wall in background ?
111150	137	10	-	NBI/L	B	2500	blobs, vessel wall in background ?
111151	200	5	-	OH	A	2000	interesting waves, between ELMs ?
111152	200	5	-	NBI/H	A	2000	interesting waves, between ELMs ?
111153	177	5	-	NBI/H	A	2000	interesting waves, between ELMs ?
111164	230	5	200/30	NBI	B	4000	barber pole wave after disruption
111167	230	5	200/30	NBI/H	A*	3100/3	interesting waves, between ELMs
111168	230	5	200/30	NBI/H	A*	3000	interesting waves, between ELMs
111169	230	5	200/30	NBI	B	3000	faint waves, disrupted before this
111170	202	5	200/30	NBI	B	2500	waves + wall background, no puff
111171	203	5	200/30	NBI	B	2500	waves + wall background, no puff
111172	240	10	200/30	NBI	A*	4500/3	blobs moving out and down
111175	240	10	200/30	NBI	A*	4000	complex waves, after disruption

2/5/04, Fred's D-alpha filter (1.5 nm), D puff, D plasma, mirror not beamsplitter

111187	125	10	-	NBI/L	C	2500	blobs moving out
111189	125	10	-	OH	C	2500	blobs moving out
111192	220	35	-	NBI/H	A	5000	ELMs + blobs
111193	300	35	-	NBI/H	A*	5500/3	ELMs + blobs
111196	300	20	-	NBI/H	A*	4500.3	ELMs + blobs
111199	300	20	-	NBI/H	B	4000	ELMs + blobs
111200	299	20	-	NBI/H	A*	4000	ELMs + blob, small gap
111202	299	20	-	NBI/H	A	4000	ELMs + blobs
111203	299	20	-	NBI/H	A*	4500/3	ELMs + blobs

NSTX Shot #	time msec	frame μ sec	puff msec	shot type	Quality A, B, C	Max. signal	Comments
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2/16/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter
Helium plasmas with RF today

111272	320	4	280/30	RF	A	3000	counter propagation, 2 radial zone
111274	320	4	280/30	RF	A	2500	counter propagation, 2 radial zone
111277	315	4	280/30	OH	A*	3500/2	counter prop waves, farther out
111280	315	4	280/30	RF	A*	3500/2	waves + occasional blobs, farther out
111281	315	4	280/30	RF	A*	3000/2	waves + occasional blobs, farther out
111283	315	4	280/30	RF	A*	4000/2	waves + occasional blobs, farther out

2/18/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter
H-mode day

111340	169	10	-	OH	C	2000	dim blobs/waves, see far wall
111341	169	10	-	NBI	B	2000	see toroidal extent, see far wall
111343	169	10	-	NBI	C	2000	dim blobs/waves, see far wall
111344	169	10	-	NBI	C	2000	dim blobs/waves, see far wall
111347	155	10	-	OH	C	2000	dim blobs/waves, see far wall
111349	155	10	-	OH	C	2000	dim blobs/waves, see far wall
111350	155	10	-	OH	C	2000	dim blobs/waves, see far wall
111351	168	10	-	OH	C	2000	dim blobs/waves, see far wall

2/19/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter

111362	365	10	-		B	2000	quiet H + ELMs + toroidal extent
111365	365	10	-		A	2000	H with ELMs, bursts +toroidal curvatu
111366	365	10	-		A	2000	H with ELMs, bursts +toroidal curvatu
111367	365	10	-		B	2000	H with ELMs, bursts +toroidal curvatu
111369	365	10	-		B	2000	H with ELMs, bursts +toroidal curvatu
111370	365	10	-		B	2000	H with ELMs, bursts +toroidal curvatu
111374	365	10	330/30	NBI/H	A*	5500/2	H with ELMs + blobs + 2kHz bursts
111378	365	5	330/30	NBI/H	A*	3000/2	H with with blobs + a few bursts
111379	365	5	330/30	NBI/H	A*	3000/3	H with with blobs + a few bursts
111380	365	5	330/30	NBI/H	A*	3000/2	H w/ blobs. some counterprop
111384	300	5	265/30	NBI/H	A*	3300/3	H w/ blobs. some counterprop

2/20/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter
RF day (deuterium plasmas ?)

111392	205	10	-	OH	B	2000	dim, periodic bulges
111395	355	5	320/30	OH	A*	3500/2	counterpropagaton, far out
111406	355	4	320/30	RF	A*	4000/2	quiet H + counterpropagaton, far out
111407	355	4	320/20	RF	A*	3000/2	quiet H + counterpropagaton, far out
111408	355	4	320/20	RF	A*	3000/2	quiet H + counter/circular, far out

NSTX Shot #	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
2/20/04...cont...							
111410	355	4	320/30	RF	A*	2500/2	dimmer, quiet H + counter/circular, far
111411	355	4	320/30	RF	A*	2300/2	dimmer, quiet H + counter/circular, far
111415	355	4	-	RF	B	1600	quiet H + counter/circular, far out

[2/24/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter](#)

111453	255	10	215/20	NBI/H	A*	4500/3	quiet H with one wavy disturbance
111454	180	4	-	NBI	C	2000	dim but something
111455	180	4	-	NBI	C	1600	dim but something
111457	126	4	-	NBI	C	1600	dim but something
111458	126	4	-	NBI	B	1600	dim but something, blobby
111461	126	4	-	NBI	B	1600	dim but something blobby
111463	126	4	-	NBI	B	1600	dim but something blobby
111464	126	4	-	NBI	C	1600	dim but something
111465	126	4	-	NBI	C	2000	dim but something
111467	126	4	-	NBI	C	2000	dim but something
111468	126	4	-	NBI	C	2000	dim but something
111469	126	4	-	NBI	C	2000	dim but something
111470	126	4	-	NBI	C	2000	dim but something

[2/25/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter](#)
[Sabbagh's high beta p](#)

111473	204	15	165/20	NBI	A*	5500/2	fiducial, lots of blobs, just before H
111474	204	15	165/20	NBI	C	2000	boring, see wall
111477	223	15	165/20	NBI	B	3000	blobs moving out
111487	228	15	165/20	NBI	C	3000	boring, see wall
111488	228	15	165/20	NBI	C	3000	quiet H, see wall
111489	228	15	165/20	NBI	C	3000	wavy H, see wall
111490	228	15	165/20	NBI	C	3000	quiet H, see wall
111491	228	15	165/20	NBI	C	3000	quiet H, see wall
111492	228	15	165/20	NBI	C	3000	wavy H, see wall

[2/26/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter](#)
[Sid's beam experiment, inner wall limited L-modes](#)

111510	213	15	175/20	Fiduc	A*	5000/3	H-mode with ELM?
111517	210	4	175/20	NBI/L	A*	2300/3	complex structure, bouncing MHD
111518	210	4	175/20	NBI/L	A*	2500/3	complex structure, blobs out and down
111519	210	4	175/20	NBI/L	A*	2600/3	complex structure, blobs out and down
111521	210	4	175/20	NBI/L	A*	2800/3	complex structure, blobs out and down
111522	210	4	175/20	NBI/L	A*	3000/3	complex structure, blobs out and down
111523	200	4	175/20	NBI/L	A*	2500/3	complex structure, blobs out and down
111524	200	4	175/10	NBI/L	A*	1900/3	complex structure, bouncing MHD

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B, C	Max. signal	Comments
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2/27/04 New alignment, now with chord data, new D-alpha filter, D puff, 50% beamsplitter
John's long pulse expt

111530	210	4	175/10	NBI/L	A	2500	dim but blobs down and out
111532	210	4	175/30	NBI/L	A*	3000/3	good blobs down and out
111538	208	15	-	NBI	A*	2000	L-H transition + ELM

3/1/04 HHFW conditioning, switched to 58 mm lens on PSI to see bundle, D-alpha, D2, 50% BS

111575	300	10	-	RF	C	2000	58 mm lens view of bundle
111576	300	10	-	RF	C	2000	58 mm lens view of bundle
111577	300	10	-	RF	C	2000	58 mm lens view of bundle
111582	217	4	-	RF	C	2000	58 mm lens view of bundle
111583	218	4	-	RF	C	2000	58 mm lens view of bundle

3/2/04 HHFW, back to 85 mm lens, Dalpha, D2, 50% BS as before

111592	218	4	-	RF	C	1600	very dim
111593	220	4	-	RF	C	1600	very dim, before RF
111595	398	4	365/20	RF	A*	3000/2	interesting waves, counter propagation
111596	393	4	365/20	RF	A*	3000/2	interesting waves, big blobs
111597	393	4	365/20	RF	A*	4000/2	interesting blobs and waves
111599	393	4	365/20	RF	A*	4000/2	interesting waves and blobs
111602	390	4	365/20	RF	A*	3000/2	very strange large waves
111603	393	4	-	RF	B	2000	dim but OK

CHERS opening here with alignment in vessel

4/27/04 PSI-5 camera first day – Dalpha filter

112471	300	4	-	NBI	C	1500	dim filaments, no puff
112472	300	4	-	NBI	C	1500	dim filaments, no puff
112483	300	4	-	NBI	C	1500	dim filaments, no puff

4/28/04 Edge XP Dalpha filter – no PMs due to mirror instead of beamsplitter

112502	400	4	365	NBI	A	3000	wavy H, blobs, up and down, neut noise
112503	400	4	365	NBI	A	3000	wavy H, blobs, neut noise
112505	400	4	365	NBI	A*	2600/3	H-mode with slow MHD and blobs
112506	400	4	365	NBI	A*	2600/3	H-mode with slow MHD and blobs
112507	400	4	365	NBI	A	3000	H-mode with slow MHD and blobs
112508	400	4	365	NBI	A	3000	H-mode with slow MHD and blobs

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B, C	Max. signal	Comments
112509	265	4	300	NBI	A	3000	H-mode with blobs
112511	300	4	265	NBI	A	3000	nice complex L
112512	300	4	265	NBI	A	3000	blobs and waves, ELM ?
112513	300	4	265	NBI	A	3000	H-mode with blob
112514	400	4	365	NBI	A*	3500/3	looks like blobby L-mode
112515	400	4	365	NBI	A*	4000/3	H-mode with ELM ?
112516	400	4	365	NBI	A	3000	quiet then waves and blobs
112517	400	4	365	NBI	A	3000	H-mode with waves
112518	400	4	365	NBI	A	3000	H-mode with waves, inside
112519	400	4	365	NBI	A	3000	H-mode with waves
112520	400	4	365	NBI	A	3000	H-mode with ELM ?
112522	400	4	365	NBI	A	3000	waves very far out
112523	300	4	265	NBI	A	3000	H-mode with blob
112524	300	4	265	NBI	A*	2700/3	H-mode with blobs
112525	300	4	265	NBI	A	3000	L-mode with blobs
112526	300	4	265	NBI	A*	3000	nice complex L

5/12/04 NEW ALIGNMENT (third for PSI-5) D-alpha filter with D puff with b/s

112652	150	4	-		C		no puff, see far wall
112655	150	4	110/20	NBI	A		good H-mode

5/13/04 same conditions as 5/12/04

112660	140	4	110/20	NBI	A		H-mode w/ waves
112661	95	4	65/20	NBI	A		H-mode dim, long blob
112662	265	4	230/20	NBI	A		H-mode brighter, waves
112664	265	4	230/20	NBI	A		H-mode with blob
112665	505	4	470/30	NBI	A		H-mode with blob, MHD, ELM?
112666	505	4	470/30	NBI	A		double null

5/14/04 RF edge coupling day, still Dalpha w/D puff w/bs

112691	195	10	160/30	fiduci	A	5000	good L-mode
112693	435	4	410/30	RF	A	3000	MHD after disruption
112694	435	4	410/30	RF	A	3000	waves and blobs
112695	435	4	410/30	RF	A	3000	waves and blobs
112697	435	4	405/30	RF	A	3000	double barrier
112698	435	4	405/30	RF	A	3000	fairly quiet

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B, C	Max. signal	Comments
112699	435	4	405/30	RF	A*	4000/3	downward waves
112700	435	4	405/30	RF	A	4000	big blobs, some waves
112701	435	4	405/30	RF	A*	4000/3	big blobs, some waves
112703	435	4	405/30	RF	A	3000	waves and blobs
112704	435	4	405/30	RF	A	3000	waves and blobs, ST ? (now 7 cm-1)
112706	470	4	435/30	RF	A	3000	bigger blobs
112707	470	4	435/30	RF	A	3000	bigger blobs, double barrier
112708	470	4	435/30	RF	A	3000	bigger blobs, double barrier
112709	470	4	435/30	RF	A	3000	farther in, smaller and faster, colliding
112710	470	4	435/30	RF	A	3000	very far in, looks L-mode, nice
112712	470	4	435/30	RF	A	2000	diffuse, in current decay
112713	470	4	435/30	RF	A	3000	middle, fast and down
112718	470	10	335/30	RF	A	5000	middle, too slow frame rate
112719	470	10	335/30	RF	A	5000	complex patterns, some up
112721	370	10	335/30	RF	A*	6000/3	quiet w/ repeated waves
112722	370	10	335/30	RF	A*	6000/3	waves w/ blobs, double barrier
112723	420	10	310/30	RF	A*	6000/3	waves w/ blobs, double barrier
112724	420	10	385/30	RF	A	3000	diffuse and dim, current decay, MHD/S
112727	305	4	270/30	RF	A	3000	complex patterns, some up
112728	370	10	270/30	RF	A	5000	near antenna, blobs from below
112729	370	4	270/30	RF	A	3000	slow, diffuse, double barrier, wall at en
112730	250	4	215/30	RF	A	3000	diffuse, upward prop
112731	250	10	215/30	RF	A	5000	diffuse, upward prop

5/17/04 EFIT + H-mode day, switched to HeI (587 nm) filter , NO PUFFS TODAY

112736	202	10	-	NBI	B	2000	dim blobs
112737	176	10	-	NBI	C	2000	very dim H
112738	176	10	-	NBI	C	2000	dim filaments
112739	176	10	-	NBI	C	2000	dim diffuse, He cond
112740	176	10	-	NBI	C	2000	dim filaments
112741	176	10	-	NBI	C	2000	dim diffuse, He cond
112742	176	10	-	NBI	C	2000	dim filaments
112758	176	10	-	NBI	B	2000	filaments with blobs, nice
112759	176	10	-	NBI	C	2000	dim diffuse, He cond
112760	176	10	-	NBI	B	2000	H-mode filaments w/blobs, ok
112762	176	10	-	NBI	B	2000	H-mode filaments w/blobs, ok
112763	233	10	-	NBI	B	2000	outside filaments
112767	176	10	-	NBI	B	2000	H-mode w/filaments
112759	176	10	-	NBI	C	2000	dim diffuse, He cond
112760	176	10	-	NBI	B	2000	H-mode filaments w/blobs, ok
112762	176	10	-	NBI	B	2000	H-mode filaments w/blobs, ok

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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5/18/04 now He puff with, HeI (587 nm) filter , fixed misplaced chords for this run

112777	250	4?	215/30	NBI	B	2000	nice L-mode w/blobs, neut noise
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5/19/04 Jose's day now He puff with, HeI (587 nm) filter this run for Lodestar

112811	250	4	215/30	NBI	A	3000	quiet H-mode
112812	285	4	250/30	NBI	A	2500	dimmer, complex motion
112813	285	4	250/20	NBI	A*	2500/3	complex motion
112814	285	4	250/20	NBI	A*	2500/3	complex motion, some up
112815	285	4	250/20	NBI	A	2500	complex motion, some up
112816	280	4	250/20	NBI	A	2500	complex motion, some up
112817	290	4	260/20	NBI	A	2500	complex motion, some up
112819	290	4	250/20	NBI	A	2500	complex motion, some up
112820	280	4	260/20	NBI	B	2500	black ring w/vignetting
112821	280	4	260/20	NBI	B	2500	black ring w/vignetting
112823	400	4	380/20	NBI	B	2500	black ring w/vignetting, farther out
112824	390	4	360/20	NBI	A	2500	complex waves, blobs, vorticity ?
112825	395	4	360/20	NBI	A	2500	more blobs, more outward
112826	395	4	360/20	NBI	A	2500	blobs, upward runners, out
112827	395	4	360/20	NBI	A	2500	blobs, upward runners, out
112828	395	4	360/20	NBI	A	2500	blobs, upward runners, out
112829	395	4	360/20	NBI	A*	3000/3	blobs, upward runners, out
112830	305	4	270/20	NBI	A*	3000/3	complex blobs, nice
112831	395	4	270/20	NBI	A	2500	complex blobs, nice
112832	285	4	270/20	NBI	C	1500	dark, before puff
112833	290	4	270/20	NBI	B	3000	dim normal, some black ring at end
112834	305?	4	270/10	NBI	B	2000	very dim with small puff
112835	165	40	130/10	NBI	A	5000	slow evolution, spitting out blobs
112837	150	40	130/10	NBI	C	2000	almost dark
112838	150	40	130/10	NBI	A	3000	slow evolution, spitting out blobs
112840	350	40	330/10	NBI	A	3000	slow evolution, spitting out blobs
112842	360	4	330/20	NBI	A*	3000/3	H-mode w/blobs
112843	355	4	330/20	NBI	B	2000	H-mode, black ring at end ?
112844	365	4	330/20	NBI	A*	3000/3	double null L-mode, nice complex

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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5/20/04 Small ELMS, still He puff with, HeI (587 nm) filter

112875	510	20	480/20	NBI	B	5000	L-mode w/blobs, ELMS?
112876	510	20	480/20	NBI	B	5000	L-mode w/blobs, ELMS?
112881	510	20	480/10	NBI	B	3000	L-mode w/blobs, ELMS?

5/21/04 still He puff with, HeI (587 nm) filter

112894	180	10	145/20	NBI	B	4000	fiducial
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5/24/04 still He puff with, but with D-alpha filter

112949	145	10	125/20	NBI		4000	dim but normal H-mode w/blobs
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5/25/04 Stutman's day, now D2 puff with D-alpha filter

112983	165	10	135/20	NBI	A	4000	fiducial, nice raining blobs
112987	460	4	335/20	NBI	A	4000	nice waves
112992	465	4	430/30	NBI	A	4000	nice waves
112994	450	4	430/30	NBI	A	2000	nice waves, early PSI
112995	447.5	4	430/30	NBI	A	2000	nice waves, early PSI
113001	455	4	-	NBI	A	2000	very dim, no puff
113006	470	4	430/30	NBI	B	3000	very low current, long poloidal waves
113007	470	4	430/30	NBI	A	4000	nice waves
113009	470	4	430/30	NBI	B	2000	very low current, long poloidal waves
113010	470	4	430/30	NBI	B	2000	weird, after disruption
113011	465	4	430/30	NBI	A	2000	nice blobs and waves
113012	465	4	430/30	NBI	A	2000	H-mode with a few blobs

5/26/04 LeBlanc's day HHFW, no NBI, D2 puff with D-alpha filter

113024	190	10	155/30	NBI	A	4000	H-mode with one big blob
113027	365	4	335/20	NBI	A	2500	nice complex
113028	365	4	-	NBI	C	1500	very dim no puff
113029	365	4	335/20	NBI	A	2500	nice complex waves, double barrier
113030	365	4	335/20	NBI	A	2500	nice complex waves, double barrier
113032	363	4	335/20	NBI	A	2500	nice complex, colliding blobs
113033	363	4	335/20	NBI	A	2500	nice complex waves, double barrier
113034	363	4	335/20	NBI	A	3000	longer waves w/blobs
113035	218	10	190/20	NBI	A	5000	longer waves w/blobs
113036	218	10	190/20	NBI	A	5000	nice complex
113037	188	10	160/20	NBI	A*	4000/3	wavy ELMs
113038	186	10	160/20	NBI	A*	4000/3	EMLs ?
113039	180	10	150/20	NBI	A	4000	ELMs ?
113040	185	10	150/20	NBI	A	4000	raining blobs, no RF

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
113041	185	10	150/20	NBI	B	4000	weird shot, L-mode
113042	188	10	150/20	NBI	A	4000	waves/blobs very far out
113043	188	10	150/20	NBI	A	4000	long waves w/blobs far out
113044	215	10	150/20	NBI	B	4000	weird shot, L-mode
113045	254	10	185/20	NBI	A	5000	after disruption, tilted sep
113046	254	10	225/20	NBI	A	4000	H-mode with 2 ELMs
113047	212	10	200/20	NBI	B	4000	wavy L-mode
113048	230	10	200/20	NBI	A	4000	wavy L – H-mode
113049	230	10	200/20	NBI	A	4000	wavy L – H-mode
113050	230	10	200/20	NBI	A*	4000/3	H-ELM ?
113051	230	10	200/20	NBI	A	5000	H-ELM ?
113052	230	4	200/20	NBI	A*	3000/3	H-waves-ELM ?
113053	230	4	200/20	NBI	A*	3000/3	small ELMs
113054	230	4	200/20	NBI	A*	3000/3	small ELMs

5/27/04 LeBlanc's day HHFW, with NBI, D2 puff with D-alpha filter

113057	187	10	160/30	NBI	A	4000	L-mode fiducial
113058	200	4	170/20	NBI	A	3000	nice complex L
113059	206	10	170/20	NBI	A	4000	L
113060	212	10	170/20	NBI	A*	4000/3	L –H caught
113061	205	10	170/20	NBI	A	4000	L
113062	207	10	170/20	NBI	A*	4000/3	H-L
113063	204	10	170/20	NBI	A	4000	L
113064	209	10	170/20	NBI	A*	4000/3	H-L-H caught
113065	209	10	170/20	NBI	A	4000	L–H-L caught
113066	209	10	170/20	NBI	A*	4000/3	L-H-L-H-L caught dithers
113067	208	10	170/20	NBI	A*	4000/3	LH-L-H-L-H caught dithers
113068	207	10	170/20	NBI	A	4000	L
113069	212	10	170/20	NBI	A*	4000/3	L–H-L
113070	212	4	170/20	NBI	A	3000	wavy H
113071	208	4	170/20	NBI	A*	3000/3	L-H caught
113072	208	4	170/20	NBI	A	3000	nice blobby L
113073	208	4	170/20	NBI	A	3000	nice blobby L
113074	208	4	170/20	NBI	A*	3000/3	L-H-L-H caught
113075	208	4	170/20	NBI	A*	3000/3	H-L-H-L caught
113076	208	4	170/20	NBI	A	3000	nice blobby L
113077	208	4	170/20	NBI	A	3000	nice blobby L
113079	208	4	170/20	NBI	A*	3000/3	L-H caught
113080	208	4	170/20	NBI	A	3000	nice blobby L
113081	208	17	170/20	NBI	A	3000	H-L-H very slow

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
113082	208	4	170/20	NBI	A	3000	nice blobby L
113083	208	4	170/20	NBI	A	3000	nice blobby L
113084	210	10	170/20	NBI	A	5000	nice blobby L
113085	219	10	170/20	NBI	A	5000	H with running waves
113087	213	10	170/20	NBI	A	5000	nice blobby L
113088	213	10	170/20	NBI	A	5000	nice shooting blobs
113089	275	10	245/20	NBI	A	5000	nice blobby L
113090	275	10	245/20	NBI	A	5000	small ELMs
113091	275	10	245/20	NBI	A	5000	small ELMs
113092	275	10	245/20	NBI	A	5000	wavy L w/blobs
113093	275	10	245/20	NBI	A	5000	small E
113094	275	10	245/20	NBI	A	3000	L
113095	290	10	290/20	NBI	A	2000	no puff filaments
113096	290	10	290/20	NBI	A	2000	no puff filaments
113097	275	10	245/20	NBI	A	5000	blobby L far out
113098	275	10	245/20	NBI	A	5000	blobby L

5/28/04 Peebles day with L-mode, D2 puff with, with D-alpha filter

113109	330	4	300/20	NBI	A	3000	small ELMs + MHD
113111	330	4	300/20	NBI	A	3000	small ELMs
113112	330	4	300/20	NBI	A	3000	L
113113	330	4	300/20	NBI	A*	3000	L, up/down w/blob
113114	330	4	300/20	NBI	A	3000	L
113115	328	4	300/20	NBI	A	3000	L, up/down waves
113116	328	4	300/20	NBI	A*	3000	L, up/down waves
113117	328	4	300/20	NBI	A	3000	L, up/down waves
113118	328	4	300/20	NBI	A	3000	L-mode, looks slower/larger
113119	328	4	300/20	NBI	A*	3000	L-mode, looks slower/larger
113120	328	4	300/20	NBI	A	4000	L
113121	328	4	-	NBI	A	1500	very dim
113122	328	4	300/20	NBI	A*	4000	nice waves
113123	328	4	300/20	NBI	A*	4000	nice waves, up & down
113124	328	4	300/20	NBI	A*	4000	nice waves and blobs
113126	328	4	300/20	NBI	A*	4000	nice waves and blobs
113127	328	4	300/20	NBI	A*	4000	nice waves and blobs
113128	328	4	300/20	NBI	A*	4000	nice waves and blobs
113129	328	4	300/20	NBI	A*	4000	nice waves and blobs
113130	328	4	300/20	NBI	A	4000	nice waves big blob
113131	328	4	300/20	NBI	A	4000	more blobby
113133	328	4	-	NBI	A	1500	very dim
113134	220	4	195/20	NBI	A	4000	nice waves, up & down

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
113135	220	4	195/20	NBI	A*	4000	nice waves and blobs
113137	220	4	195/20	NBI	A	4000	nice waves and blobs
113139	220	4	195/20	NBI	A*	4000	quiet H-mode
113140	205	4	180/20	NBI	A*	4000	ELMs and blobs
113141	272	4	245/20	NBI	A	4000	H with a few waves

6/1/04 High beta current ramp, D2 puff with, with D-alpha filter

113146	187	4	160/30	NBI	A	3000	H fiducial, inside edge
113148	315	4	280/20	NBI	A	3000	nice waves and blobs
113150	315	4	280/20	NBI	A	3000	nice waves and blobs
113157	315	4	280/20	NBI	A	3000	nice waves and blobs
113169	315	4	280/20	NBI	A	3000	complex blobs
113170	315	4	280/20	NBI	A	3000	complex blobs
113177	260	4	230/20	NBI	A*	3000	big waves
113178	260	4	230/20	NBI	A*	3000	big waves
113179	260	4	230/20	NBI	A*	3000	H
113180	260	4	230/20	NBI	A*	3000	slow blobs, during crash of beta
113181	260	4	230/20	NBI	A*	3000	big waves, after crash of beta
113182	260	4	230/20	NBI	A*	3000	big waves, after crash of beta
113183	260	4	230/20	NBI	A*	3000	H with waves, high beta

6/2/04 Stan's ELMs, D2 puff with, with D-alpha filter

113191	345	4	320/20	NBI	A*	3000	nice waves and blobs
113192	345	4	320/20	NBI	A*	3000	nice waves and blobs
113193	345	4	320/20	NBI	A*	3000	nice waves and blobs
113195	345	4	320/20	NBI	A	3000	H with blobs or ELMs
113200	345	4	320/20	NBI	A	3000	nice waves and blobs
113202	345	4	320/20	NBI	A*	3000	nice waves and blobs
113204	345	20	320/10	NBI	A*	3000	undersampled waves and blobs
113206	345	25	320/10	NBI	B*	5000	undersampled waves and blobs, ELM
113209	345	25	320/10	NBI	B	5000	undersampled waves and blobs, ELM
113210	345	25	320/10	NBI	B*	3000	undersampled waves and blobs, ELM
113211	345	25	320/10	NBI	A	3000	undersampled waves and blobs, filame
113220	240	25	215/15	NBI	B	3000	see far wall
113221	240	25	215/15	NBI	A*	3000	caught ELM
113222	240	25	215/15	NBI	B	3000	disruption
113223	240	25	215/15	NBI	A	3000	undersampled waves and blobs

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B, C	Max. signal	Comments
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6/3/04 Ted's edge rotation day, D2 puff with, with D-alpha filter

113226	285	4	260/20	NBI	A*	3000	H-mode – ELM ? w/MHD
113228	180	4	155/20	NBI	A	3000	nice blobs and waves
113230	180	4	155/20	NBI	A	3000	nice blobs and waves
113231	180	4	155/20	NBI	A	3000	nice blobs and waves
113232	335	4	310/20	NBI	A	3000	mostly H with waves
113233	335	4	310/20	NBI	A	3000	nice waves and blobs
113234	180	4	155/20	NBI	A	3000	nice waves and blobs
113235	180	4	155/20	NBI	A	3000	mostly H with waves
113236	180	4	155/20	NBI	A	3000	nice waves and blobs
113237	180	4	155/20	NBI	A	3000	nice waves and blobs
113238	180	4	155/20	NBI	A	3000	nice waves and blobs
113239	180	4	155/20	NBI	A	3000	nice waves and blobs
113241	400	4	370/20	NBI	A*	3000	long waves + ELM ?
113243	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113244	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113245	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113246	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113247	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113248	400	4	370/20	NBI	A*	3000	mostly H with waves
113249	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113250	400	4	370/20	NBI	A*	3000	waves and blobs near wall
113251	400	4	370/20	NBI	A	3000	waves and blobs near wall
113252	400	4	370/20	NBI	A*	3000	waves and blobs farther in

maintenance weeks – possible 2 cm radial movement of mirror see '04 book p. 124

6/21/04 – Charles' OH H-mode (D2 + Dalpha) getting images with manifold camera

113348	300	4	265/30	OH	A	3500	nice waves and blobs
113349	250	4	215/30	OH	B	2000	He plasma, dark
113352	220	4	185/20	OH	A	3500	nice waves and blobs
113354	220	4	185/20	OH	A*	3500	very quiet H-mode
113355	220	4	185/20	OH	A	3500	nice waves and blobs
113356	200	4	165/20	OH	A	3500	nice waves, farther in
113357	200	4	165/20	OH	A	3500	nice waves and blobs, Helium plasma
113358	200	4	165/20	OH	A	3500	nice waves
113359	200	4	165/20	OH	A	3500	nice waves, slower, quiet in middle
113360	200	4	165/20	OH	A*	3500	nice waves and blobs
113361	205	4	165/20	OH	A*	3500	H-mode w/barber pole waves

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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6/21/04 – NBI development (D2 + Dalpha) – getting images of manifold with RF camera

113362	205	4	165/30	NBI ?	A	3500	nice waves and blobs
113364	205	4	165/20	NBI ?	A	3500	nice waves and blobs, dimmer
113365	205	4	165/10	NBI ?	A	2500	nice waves and blobs, very dim
113366	195	4	165/10	NBI ?	A	2500	nice waves and blobs, better
113367	195	4	165/10	NBI ?	A	2500	nice waves and blobs , really dim
113370	195	4	165/10	NBI ?	B	3500	nice waves and blobs, dim
113371	195	4	165/15	NBI ?	A*	2000	bouncing MHD , best manifold

6/22/04 – Rajesh's ELMs (D2 + Dalpha)

113374	205	4	180/30	NBI	A	3500	nice waves and blobs
113375	205	4	180/20	NBI	A	3500	nice Helium shot
113377	205	4	180/20	NBI	A	3500	nice Helium shot
113378	205	4	180/20	NBI	A	3500	mostly H-mode, fingers ?
113379	205	4	180/20	NBI	A	3500	?
113380	205	4	180/20	NBI	A	3500	H-mode + waves
113381	214	4	190/20	NBI	A	3500	Helium shot, slow MHD
113382	214	4	180/20	NBI	A	3500	complex
113383	250	10	220/20	NBI	A	3500	H-mode
113384	250	10	220/20	NBI	A	3500	Helium blobs
113385	250	10	220/20	NBI	A	3500	isolated blobs
113386	250	10	220/20	NBI	A	3500	steady blobs, Helium
113387	250	10	220/20	NBI	A	3500	steady blobs
113388	250	10	220/20	NBI	A	3500	steady blobs,
113389	250	10	220/20	NBI	A	3500	steady blobs
113390	250	10	220/20	NBI	A	3500	Helium , MHD burst
113392	250	10	220/20	NBI	A	3500	Helium
113394	250	10	220/20	NBI	A	3500	Helium
113395	250	10	220/20	NBI	A	3500	H + ELM ?
113396	250	10	220/20	NBI	A	3500	Helium
113398	250	10	220/20	NBI	A	3500	Helium
113399	250	10	220/20	NBI	A	3500	H-mode with 2 blobs
113400	250	10	220/20	NBI	A	3500	Helium
113402	250	10	220/20	NBI	A	3500	looks like L
113403	250	10	220/20	NBI	A	3500	L with slow MHD
113404	250	10	220/20	NBI	A	3500	Helium

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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6/22/04 – Rajesh's ELMs ...cont... (D2 + Dalpha)

113406	410	10	380/20	NBI	A*	3500	between ELMs
113407	450	10	420/20	NBI	A*	3500	ELM
113408	450	10	420/20	NBI	A*	3500	ELM
113409	450	10	420/20	NBI	A*	3500	ELM
113410	450	10	380/20	NBI	A*	3500	small ELMs
113411	450	10	380/20	NBI	A*	3500	1+ ELMs
113414	440	10	410/20	NBI	A*	3500	no big ELM
113415	350	10	320/20	NBI	A	3500	blobs no ELM
113416	345	30	320/20	NBI	A	3500	type 1 ELM
113417	410	16	320/20	NBI	A*	3500	type 1 ELM

6/23/04 – RF day (D2 + Dalpha)

113420	210	4	180/20	NBI	A*	3500	fiducial H-mode
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6/24/04 – Ben's NBI +RF day (D2 + Dalpha)

113466	210	4	180/30	NBI	A	3500	fiducial L-mode
113467	430	4	400/20	NBI	A	3500	quiet H, fast ELM
113468	430	4	400/20	NBI	A	3500	quiet H, fast ELM
113469	430	4	400/20	NBI	A	3500	quiet H, fast ELM
113470	430	4	400/20	NBI	A*	3500	quiet H, fast ELM
113471	430	4	400/20	NBI	A*	3500	quiet H, fast ELM
113473	430	4	400/20	NBI	A*	3500	two ELMs
113474	430	4	400/20	NBI	A	3500	complex
113476	300	4	270/20	NBI	A	3500	complex
113478	300	4	270/20	NBI	A	3500	quiet at end
113479	300	4	270/20	NBI	A	3500	complex, H at end
113481	300	4	270/20	NBI	A	3500	complex folding
113482	300	4	270/20	NBI	A*	3500	complex, beautiful patterns
113483	300	4	270/20	NBI	A*	3500	complex, beautiful patterns
113484	300	4	270/20	NBI	A*	3500	H to big ELM
113485	300	4	270/20	NBI	A	3500	complex
113486	300	4	270/20	NBI	A	3500	complex
113487	300	4	270/20	NBI	A*	3500	fast ELMs + waves
113488	300	4	270/20	NBI	A	3500	two ELMs
113490	300	4	270/20	NBI	A	3500	complex
113491	300	4	270/20	NBI	A	3500	complex
113492	300	4	270/20	NBI	A	3500	complex, overlaps end of RF

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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6/25/04 Heidbrink day (Dalphi, D2)

113516	210	4	180/30	NBI	A*	3500	fiducial, nice H-mode
113517	210	4	-	NBI	B	3500	nice filaments with no puff
113518	210	4	-	NBI	B	3500	nice filaments with no puff
113519	300	4	-	NBI	A	3500	ELM with nice filaments with no puff
113520	300	4	-	NBI	B*	3500	quiet and dim
113521	300	4	-	NBI	B	3500	nice filaments with no puff
113522	300	4	-	NBI	B	3500	nice filaments with no puff
113523	350	4	-	NBI	B	3500	nice filaments with no puff
113524	350	4	-	NBI	B	3500	nice filaments with no puff
113525	315	4	285/20	NBI	A*	3500	H-mode w/waves + Fishbone
113526	315	4	285/20	NBI	A*	3500	Fishbone
113527	315	4	285/20	NBI	A	3500	missed Fishbone
113528	315	4	285/20	NBI	A	3500	quiet, between Fishbones
113530	380	4	285/20	NBI	A	3500	H-mode w/waves in NTM
113531	380	4	350/20	NBI	A	3500	H-mode w/waves in NTM
113532	380	4	350/20	NBI	A*	3500	H-mode w/waves + Fishbone
113533	380	4	350/20	NBI	A	3500	blobs
113534	380	4	350/20	NBI	A	3500	blobs
113536	380	4	350/20	NBI	A*	3500	MHD
113537	380	4	350/20	NBI	A	3500	after disruption
113538	380	4	350/20	NBI	A*	3500	quiet H-mode w/small blobs, fast MHI

7/6/04 3 kG + 3.5 kG development (Dalphi, D2)

113628	210	4	180/30	NBI	A	3500	fiducial, nice H-mode
113630	217	4	190/20	NBI	A	3500	Helium
113631	217	4	190/20	NBI	A*	3500	Caught L-H transition
113634	217	4	190/20	NBI	A	3500	Helium
113635	217	4	190/20	NBI	A	3500	L-mode
113636	217	4	190/20	NBI	A	3500	Helium
113637	217	4	190/20	NBI	A	3500	L-mode
113638	217	4	190/20	NBI	A	3500	Helium
113639	217	4	190/20	NBI	A	3500	L-mode
113641	252	4	225/20	NBI	A	3500	H-mode
113642	245	4	215/20	NBI	A	3500	Helium
113643	245	4	215/20	NBI	A	3500	H-mode with disturbance
113644	206	4	175/20	NBI	A	3500	Helium
113645	217	4	175/20	NBI	A	3500	L-mode

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/6/04cont...

113646	206	4	175/20	NBI	A	3500	L-mode
113647	230	4	200/20	NBI	A	3500	Helium
113648	230	4	200/20	NBI	A	3500	L-mode
113649	230	4	200/20	NBI	A	3500	H-mode
113650	230	4	200/20	NBI	A	3500	H-mode
113651	230	4	200/20	NBI	A	3500	?
113652	230	4	200/20	NBI	A	3500	Helium
113653	230	4	200/20	NBI	A	3500	L-mode

7/7/04 - Li pellet day (Dalphi,D2)

113675	172	4	140/30	NBI	A	3000	up/down waves & blobs, far in
113677	410	4	380/20	NBI	A	3000	slow tilted waves, far in
113675	172	4	140/30	NBI	B	3000	unusually jumpy and noisy

7/8/04 - Li pellet day (Dalphi,D2)

113685	180	4	150/30	NBI	A	3000	down tilted waves & blobs, far in
113686	180	4	150/30	NBI	A	3000	down tilted waves & blobs, far in
113687	180	4	150/30	NBI	A	3000	down waves & blobs, far in
113702	116	4	-	NBI	A	2000	quiet H-mode, no puff
113721	212	10	155/20	NBI	A	3000	blobs
113722	212	10	155/20	NBI	A	3000	up/down blobs w/transient H at end
113723	205	10	155/20	NBI	A	3000	blobs down, some small blobs

7/9/04 - start with Bush OH, then GPI Day ! (Dalphi,D2)

113728	183	4	150/20	OH	A	2500	fast waves down in H-mode
113729	183	4	150/20	OH	A	2500	nice Ohmic blobs up and down
113730	183	4	150/20	OH	A	2500	Ohmic blobs down
113731	183	4	150/20	OH	A	2500	Ohmic blobs down
113732	183	4	150/20	NBI	A	2500	L-H Transition !
113733	183	4	150/20	NBI	A	2500	1.8 msec before L-H, some dithering
113734	183	4	150/20	NBI	A	2500	2.4 msec before L-H, little dithering
113735	185	4	150/20	NBI	A	2500	1.4 msec before L-H, definite dithering
113736	187	4	150/20	NBI	A	2500	2.8 msec before L-H, definite dithering
113737	183	4	150/20	NBI	A	2500	8.0 msec before L-H, little dithering
113738	183	4	150/20	NBI	A	2500	5.7 msec before L-H, little dithering
113739	188	4	150/20	NBI	A	2500	10.8 msec before L-H, some dithering
113740	188	4	150/30	NBI	A	2500	all H-mode, blinking
113741	186	4	150/30	NBI	A	2500	4.5 msec before L-H, dithering + folding

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/9/04 ...cont... - start with Bush OH, then GPI Day ! (Dalphi,D2)

113742	186	4	150/30	NBI	A	2500	5.9 msec before L-H, dithering + folding
113743	192	4	150/30	NBI	A	2500	2.0 msec L-H, dithering/folding/fast w
113744	197.5	4	150/30	NBI	A	2500	4.5 msec before L-H, blobs + folding
113745	210	4	150/30	NBI	A	2500	H with waves
113746	end XP						
113747	250	4	220/20	NBI	A	2500	diffuse H w/tilted waves, far in
113748	250	4	220/20	NBI	A	2500	diffuse H w/tilted waves, far in
113749	250	4	220/20	NBI	A	2500	diffuse H w/tilted waves, far in, blinkir
113750	250	4	220/20	NBI	A	2500	diffuse H w/tilted waves, far in
113752	250	4	220/20	NBI	A	2500	downward waves and blobs
113754	118	4	90/20	NBI	A	2500	far in H ? waves and blobs
113755	118	4	90/20	NBI	A	2500	strong blinking H-mode
113757	120	4	90/20	NBI	A	2500	strong blinking H-mode
113758	120	4	90/20	NBI	A	2500	blinking H-mode
113759	116	4	90/20	NBI	A	2500	upward waves + blinking - strange

7/12/04 RF + NBI with He plasmas (Dalphi,D2)

113771	151	4	120/30	OH	A	2500	far in H-mode w/blinking fiducial
113775	350	4	320/30	OH	A	2500	big blobs – H with waves good
113776	350	4	320/30	OH	A	2500	complex blobs down, nice
113777	350	4	320/30	NBI	A	2500	complex blobs down, nice - little blobs
113778	350	4	320/30	OH	A	2500	big complex blobs and fast waves, nice
113779	350	4	320/30	OH	A	2500	complex blobs, fast wave, small blob n
113780	350	4	320/30	RF	A	2500	complex blobs down, nice
113781	350	4	320/30	OH	B	2500	far in, plasma almost gone
113782	300	4	270/20	OH	A	2500	H-L-H etc – interesting OH, one big sp
113783	300	4	270/20	OH	A	2500	H-L folding ?
113784	300	4		OH	B	2500	dim and out far, disrupts
113785	300	4	270/20	OH	A	2500	H with waves and blobs
113786	300	4	270/20	OH	A	2500	H with waves and blobs
113787	300	4	270/20	NBI	A	2500	H with waves and blobs, folding, weird
113788	300	4	270/20	RF,NB	A	2500	diffuse H with big waves
113790	300	4	270/20	RF,NB	A	2500	thin H, big waves, far out
113791	300	4	270/20	NBI	A	2500	blobs moving down
113792	298	4	270/20	OH	A	2500	wavy H – L – H etc ?
113795	298	4	270/20	OH	A	2500	far in waves, blobs
113796	298	4	270/20	OH	A	2500	waves + blobs – H ?
113797	298	4	270/20	OH	A	2500	waves + blobs – H - L?

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/12/04 ...cont... RF + NBI with He plasmas (Dalphi,D2)

113802	298	4	270/20	RF	A	2500	big periodic waves far out – RF effect
113803	298	4	270/20	OH	A	2500	big tilted waves far out + in
113804	298	4	270/20	RF,NB	A	2500	nice H with breathing, thin
113806	298	4	270/20	NBI	A	2500	big periodic waves far out – RF effect
113808	298	4	270/20	RF,NB	A	2500	nice H with breathing, thin
113809	298	4	270/20	NBI	A	2500	complex, very different from above, sh
113811	298	4	270/20	OH	A	2500	H-L-H-L nice
113812	298	4	270/20	OH	A	2500	big blobs - H

7/13/04 something, then Vlad (Dalphi,D2)

113819	191	4	160/20	NBI	A	2500	dithering/folding, just before H
113820	194	4	160/20	NBI	A	2500	dithering/folding, just before H
113822	194	4	160/20	NBI	A	2500	dithering/folding, just before H
113823	245	4	210/20	NBI	A	2500	complex, slower moving
113824	245	4	210/20	NBI	A	2500	complex, slower moving, sawtooth ?
113825	245	4	210/20	NBI	A	2500	complex, slower moving, no chords
113826	300	4	270/20	NBI	A	2500	H with waves, no chords, ELM ?
113827	300	4	270/20	NBI	A	2500	H with waves, no chords, breathing ?
113828	300	4	270/20	NBI	A	2500	L-model with waves, no chords, ?
113829	300	4	270/20	NBI	A	2500	H with blob, waves, no chords, ELM ?
113830	300	4	270/20	NBI	A	2500	L with blobs, no chords, ELM ?
113831	300	4	270/20	NBI	A	2500	complex L with blobs, nice
113833	300	4	270/20	NBI	A	2500	ELM, complex folding – H at end good
113835	300	4	270/20	NBI	B	2500	H – ELM, nice
113836	300	4	-	NBI	A	2500	very dim
113837	270	4	220/20	NBI	A	2500	H with blobs
113838	270	4	220/20	NBI	A	2500	thin H with upward waves + blobs, nice
113839	270	4	220/20	NBI	A	2500	complex L with blobs
113841	270	4	220/20	NBI	A	2500	complex L, upward waves. blobs, nice
113843	270	4	220/20	NBI	A	2500	complex L with blobs, beautiful

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/15/04 Sabbagh RWM day (Dalphi,D2)

113905	200	4	-	NBI	A	2000	very dim
113906	200	4	-	NBI	A	2500	very dim
113907	132	10	105/20	NBI	A	3500	far in, L-mode
113908	138	4	105/20	NBI	A	3500	far in, H- with blobs
113910	141	4	110/20	NBI	A	2500	H with tilted waves
113912	141	4	110/20	NBI	A	2500	L-H but no clear Dalphi drop ?
113913	141	4	110/20	NBI	A	2500	fairly quiet L
113915	141	4	110/20	NBI	A	2500	slow complex L
113917	141	4	110/20	NBI	A	2500	complex L, bouncing MHD
113918	141	4	110/20	NBI	A	2500	H with blobs
113919	141	4	110/20	NBI	B	2500	very dim – puff ?
113920	141	4	110/20	NBI	A	2500	blinking H, blobs and waves
113921	141	4	110/20	NBI	A	2500	blinking H, blobs and waves
113922	141	4	110/20	NBI	A	2500	blinking H, blobs and waves
113923	141	4	110/20	NBI	A	2500	blinking H, blobs and waves
113924	141	4	110/20	NBI	A	2500	blinking H, blobs and waves
113925	141	4	110/20	NBI	A	2500	blinking H, blobs and waves

7/19/04 RF + NB day (Dalphi,D2) from this day on, chord bank 1, ch 2 to bank 1, ch 6

113978	141	4	110/20	NBI	A	2500	H with up/down waves
113979	141	4	110/20	NBI	A	2500	H with up/down waves
113981	141	4	110/20	NBI	A	2500	dithering H-L with up/down waves
113982	480	4	450/20	NBI	A	2500	H and/or L with complex blobs
113983	480	4	450/20	NBI	A	2500	L to H, maybe ELM
113986	131	4	100/20	NBI	A	2500	dithering L-H with waves, maybe ELM
113991	129	4	100/20	OH	A	2500	H with waves and blobs
113992	131	4	100/20	RF	A	2500	double barrier, convect. cell ? RF effect
113993	210	4	180/20	RF	A	2500	big slow waves, out
113994	210	4	180/20	RF	A	2500	giant blob waves, RF effect
113995	205	4	180/20	RF	A	2500	giant blob waves + H-mode, RF effect
113996	205	4	180/20	RF	A	2500	double barrier, giant blob waves
113997	205	4	180/20	OH	A	2500	blobby H or L, more normal
113999	210	4	180/20	RF	A	2500	diffuse H with big waves
114001	210	4	180/20	RF,NB	A	2500	periodic big waves at outside
114002	210	4	180/20	NBI	A	2500	dithering H-L
114003	210	4	180/20	RF,NB	A	2500	periodic big waves
114004	210	4	180/20	RF,NB	A	2500	periodic big waves w/H sometimes
114006	210	4	180/20	OH	A	2500	normal H with blobs and waves
114007	210	4	180/20	RF	A	2500	periodic big waves at outside

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/20/04 RWM day (Dalphi,D2)

114019	210	4	180/20	NBI	A	2500	H with tilted waves
114020	210	4	180/20	NBI	A	2500	H with slow waves
114021	210	4	180/20	NBI	A	2500	H with slow tilted waves
114023	350	4	320/20	NBI	A	2500	very diffuse H, after disruption
114028	350	4	320/20	NBI	A	2500	H with tilted waves, some MHD
114029	350	4	320/20	NBI	A	2500	H with tilted waves and blobs
114030	350	4	320/20	NBI	A	2500	H with tilted waves and blobs
114040	350	4	320/20	NBI	A	2500	complex nice, after disruption
114041	250	4	220/20	NBI	A	2500	complex small blobs @ disruption
114042	250	4	220/20	NBI	A	2500	complex small blobs after disruption
114043	250	4	220/20	NBI	A	2500	complex small blobs after disruption
114044	200	4	170/20	NBI	A	2500	complex fingering blobs after disruption
114045	200	4	170/20	NBI	A	2500	normal blobs before disruption

7/21/04 Carbon III day for Ted (Carbon III filter -)

114053	180	100		NBI	A	2000	dim line
114054	215	100		NBI	A	2000	brighter line, waves at end
114055	215	50		NBI	A	2000	bright line, burst, dim line at end
114056	215	20		NBI	B	2000	dim line
114057	215	30		NBI	A	2000	bit brighter, some waves
114059	215	30		NBI	B	2000	very dim, He
114060	215	30		NBI	B	2000	very dim, He
114061	215	30		NBI	B	1700	dim, some waves
114062	215	30		NBI	B	1700	very dim
114064	215	30		NBI	B	1700	very dim
114066	205	50		NBI	B	1700	dim, some MHD ?
114072	220	100		NBI	A	1700	ok line
114073	250	100		NBI	A	1700	dim, bright burst at end
114074	220	100		NBI	A	1700	line ok, some flickering
114075	250	100		NBI	A	1700	brighter vs time, burst at end
114076	160	100		NBI	A	1700	dim, little burst near end
114077	160	100		NBI	A	1700	very dim, tilted burst at end

Shot	time msec	frame μ sec	puff msec	shot type	Quality A, B,C	Max. signal	Comments
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7/22/04 NO FILTER day – look at far wall after shot with filament light

114097	?	100	-		B	1500	dim wall structure
114100	999	100	-		B	1500	dim wall structure
114101	999	500	-		A	2000	good wall structure
114102	999	1000	-		A	3000	good wall structure
114102	999	2560	-		A	5000	good wall structure
114111	160	4	130/20	NBI	A	2500	H with waves and blobs
114113	160	3	130/20	NBI	A	2500	H with slow blobs (only 3 μ sec case)
114114	260	3	230/20	NBI	A	2500	H with slow blobs (only 3 μ sec case)

7/23/04 high beta try ? (Dalphi, D2 puff)

114140	180	4	150/20	NBI	A	3000	quiet H
114143	180	4	150/20	NBI	A	3000	H with waves, blinking at end
114144	180	4	150/20	NBI	A	3000	H with some waves
114145	180	10	150/20	NBI	A	4000	diffuse H with blobs
114146	180	10	150/20	NBI	A	4000	diffuse H with blobs
114147	180	10	150/20	NBI	A	4000	diffuse H with blobs
114148	180	10	150/20	NBI	A	4000	diffuse H with blobs
114149	180	10	150/20	NBI	A	4000	diffuse H with blobs
114150	180	10	150/20	NBI	A	4000	diffuse H with blobs, some up
114151	180	10	150/20	NBI	A	4000	diffuse H with blobs, some up
114152	180	4	150/20	NBI	A	2500	H or L with blobs
114153	180	4	150/20	NBI	A	2500	big bouncing, fishbone ?
114155	180	4	150/20	NBI	A	3000	blinking H-mode
114156	180	4	150/20	NBI	A	3000	blinking H-mode

7/24/04 Gary's RF day (Dalphi, D2 puff)

114178	370	10	340/20	NBI	B	2000	wavy H, far in
114181	29	10	260/20	NBI	A	4000	fast blobs down and out
114183	290	10	260/20	NBI	A	4000	big disturbance at beginning – sawtooth
114184	290	10	260/20	NBI	A	4000	blobs down and out – ST at end ?
114185	290	10	260/20	NBI	A	4000	blobs down and out

8/4/04 near last day – shot numbers may be messed up (Dalphi,D2)

114445	200	20	-	NBI	A	4000	shooting filaments, no puff
114451	200	20	-	NBI	A	4000	shooting filaments, no puff ELMs
114452	200	20	-	NBI	A	4000	shooting filaments, no puff ELMs

end of run (not much useful 8/5/04)