

→ paul

→ model_really_slow

185 dual chirp

113800 (kw) -120500 warmup

12

Date	June 11 , 2019
Timestamp Start (UTC)	113800 12 1205
Timestamp End (UTC)	12 1743

transmitter 5 failed to start
and so we are operating at ~380 kw

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-1	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.2 / -0.5	
Channel 3	-0.2 / -0.5	
Channel 4		

→ paul

→ model - really - slow

(same thing)

12

Date	June 12 , 2019
Timestamp Start (UTC)	122000
Timestamp End (UTC)	127758

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-1	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-0.6	
Channel 4		

→ paul
 → model -18-6
 ↻ second chirp second chirp

12

Date	June 12 , 2019
Timestamp Start (UTC)	131000
Timestamp End (UTC)	131700

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-1	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-0.6	
Channel 4		

→ paul

→ model_18_3x6

12

Date	June 12 , 2019
Timestamp Start (UTC)	13 30 41
Timestamp End (UTC)	14 02 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-1	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5	0
Channel 2	-0.5	
Channel 3	-0.6	
Channel 4		

→ paul

→ model_18_3x6_10khz_bw

12

Date	June 11 , 2019
Timestamp Start (UTC)	140500
Timestamp End (UTC)	161300

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.5 / -0.2	0
Channel 2	-0.5 / -0.2	
Channel 3	-1 / -0.5	
Channel 4		

transmitter 5 back at ~150500

brought everything up slowly

2nd amplitude values by ~151200

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.5 / -0.2	0
Channel 2	-0.5 / -0.3	
Channel 3	-0.6 / -0.3	
Channel 4		

~730 kW

→ paul

→ mode on step

frequency stepping every 10 khz

12

Date	June 12 , 2019
Timestamp Start (UTC)	161400
Timestamp End (UTC)	182500

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.5	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ paul
 → twist_0.1_sagger

12

Date	June 12 , 2019
Timestamp Start (UTC)	18 3100
Timestamp End (UTC)	18 4100

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.5	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ paul

→ twists - pl

→ twist - 3x0 - 1x1

12

Date	June 11 , 2019
Timestamp Start (UTC)	18 2200
Timestamp End (UTC)	18 5500

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.5	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ pcc 1

→ twists_p1

→ twist_1x0_3x1

12

Date	June 12 , 2019
Timestamp Start (UTC)	190000
Timestamp End (UTC)	191630

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.5	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

detected an error & restarted
wfg 1 1x0 3x1
wfg 2 backwards
wfg 2 3x0 1x1
nope, everything was actually fine I restarted for nothing

→ paul 1

→ twists - pl

→ twist - 1x0 - 3x1

12

Date	June 11 , 2019
Timestamp Start (UTC)	19 19 00
Timestamp End (UTC)	19 35 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.5	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ paul
 → twist_nl
 → twist_min0_min1

12

Date	June 10 , 2019
Timestamp Start (UTC)	193700
Timestamp End (UTC)	195900

testing @ visitors center

Waveform Generator 1		
	Amplitude	Phase
Channel 1	rising	0
Channel 2		
Channel 3		
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	rising	0
Channel 2		
Channel 3		
Channel 4		

→ paul

→ twists - 101

→ twist - 1x0 - 3x1

12

Date	June 11 , 2019
Timestamp Start (UTC)	19 55 00
Timestamp End (UTC)	19 55 00 20 02 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1 1	-0.2	0
Channel 2 3	-0.2	
Channel 3 5	-0.5 / 0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1 2	-0.2	0
Channel 2 4	-0.2	
Channel 3 6	-0.3	
Channel 4		

→ paul

~~→ wst 180-101~~

~~Model 18 5x8~~

~~→ wst 180-101~~

→ wst - ten 0 - teil 12

Date	June 18 , 2019
Timestamp Start (UTC)	204300
Timestamp End (UTC)	204600 205700

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ paul
 → cw-12s - ~~Chirp~~ Chirp-12s
 CW

19 khz separation
↓

12

Date	June 12 , 2019
Timestamp Start (UTC)	22 11 00 22 10 00
Timestamp End (UTC)	22 30 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	
Channel 3	-0.3	
Channel 4		

→ paul

→ cw_12s_10khz Chirp_12s

12

Date	June 12 , 2019
Timestamp Start (UTC)	22 35 00
Timestamp End (UTC)	01 15 00

~~01 15 00~~

01 15 00

Waveform Generator 1		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	↑
Channel 3	0	
Channel 4		

Waveform Generator 2		
	Amplitude	Phase
Channel 1	-0.2	0
Channel 2	-0.2	↑
Channel 3	-0.3	
Channel 4		