

# PITZ Run Coordination Meeting

16.10.2013

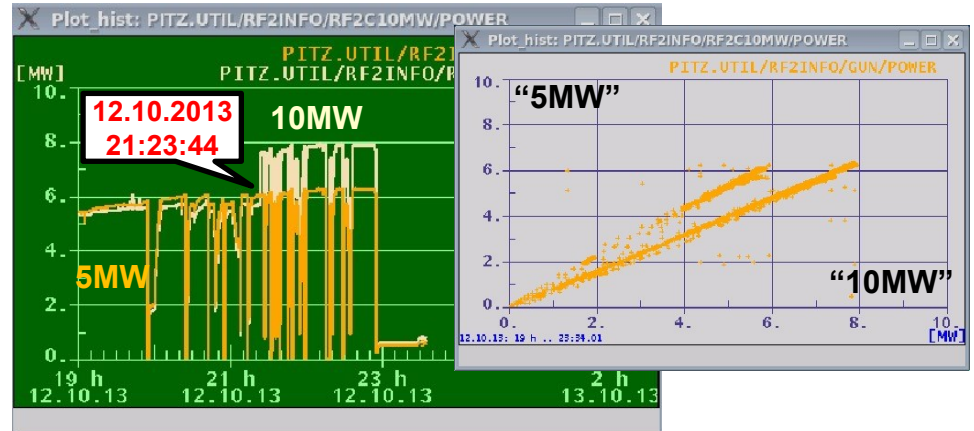
# Gun-4.4 conditioning

<b>Conditioning Step</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>
<b>Rep.Rate (Hz)</b>	5	5	5	5	10	10	10	10	10	10
<b>RF pulse length (usec)</b>	0/10\0	0/20\0	15/50\10*	50/100\20	0/10\0	50	50/100\20	50/200\20	50/400\20	50/650\20
<b>Max.peak power (MW)</b>	6.5*	6.5	6.5	6.5	6.5*	6.5	6.5	6.5	6.5	6.5
<b>Reached on</b>	11.10.13N	12.10.13A	15.10.13M							

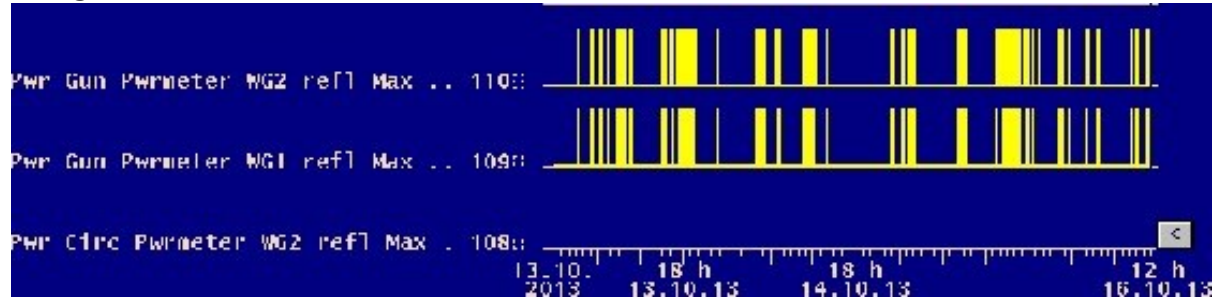
to do:	Conditioning							Week 42		
Week 41	Mon Oct-07	Tue Oct-08	Wed Oct-09	Thu Oct-10	Fri Oct-11	Sat Oct-12	Sun Oct-13	Mon Oct-14	Tue Oct-15	Wed Oct-16
Morn. 7:00 to 15:30			Isaev Prach B.	Isaev Prach B.	Isaev Prach B.	Isaev Prach B.	Isaev Prach B.	Stephan Pathak	Stephan Pathak	Stephan Nozdrin
Late 15:00 to 23:30		Gross Nozdrin	Asova Nozdrin	Asova Nozdrin	Asova Nozdrin	Asova Nozdrin	Asova Nozdrin	Otevrel Kalantaryan	Otevrel Kalantaryan	Otevrel Kalantaryan
Night 23:00 to 7:30			Stephan Vashchenko	Stephan Vashchenko	Krasilnikov Vashchenko	Krasilnikov Vashchenko	Krasilnikov Vashchenko	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning

# Week 41: Problems and observations

- RF 10MW directional coupler forward power measurements → ~20% calibration error w.r.t. 5MW DC → to be fixed on 17.10.2013

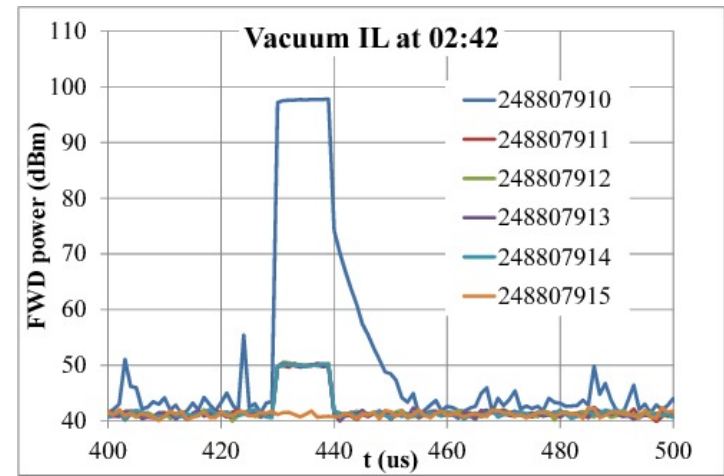


- Frequent max reflected power ILs



- After-IL-pulses

RF group: Normal behaviour. If an gallium arsenite RF switch opens, the isolation between in and out is not infinite, so a small amount of RF will still leak trough. About five orders in magnitude less ( $6.5e+6$  watts ->  $8e+1$  watts) in case of interlock is good.



# Next steps

<b>Conditioning Step</b>	1	2	3	4	5	6	7	8	9	10
<b>Rep.Rate (Hz)</b>	5	5	5	5	10	10	10	10	10	10
<b>RF pulse length (usec)</b>	0/10\0	0/20\0	15/50\10*	50/100\20	0/10\0	50	50/100\20	50/200\20	50/400\20	50/650\20
<b>Max.peak power (MW)</b>	6.5*	6.5	6.5	6.5	6.5*	6.5	6.5	6.5	6.5	6.5
<b>Reached on</b>	11.10.13N	12.10.13A	15.10.13M							



## INB:

- While gun trip → back to 10us, SPT, margins
- Investigate ILs
- Margins for RF measurements
- E-detector – vacuum correlation
- 0.2MW/15min step
- Fire TSPs if needed

Week 42	Mon Oct-14	Tue Oct-15	Wed Oct-16	Thu Oct-17	Fri Oct-18	Sat Oct-19	Sun Oct-20	Week 43			
Morn. 7:00 to 15:30	Stephan Pathak	Stephan Pathak	Stephan Nozdrin	Shutdown works		Stephan Nozdrin	Stephan Nozdrin	Morn. 7:00 to 15:30	Kourkafas Pathak	Kourkafas Pathak	
Late 15:00 to 23:30	Otevre Kalantaryan	Otevre Kalantaryan	Otevre Kalantaryan			Otevre Kalantaryan	Otevre Kalantaryan	Otevre Kalantaryan	Late 15:00 to 23:30	Krasilnikov Prach B.	Krasilnikov Prach B.
Night 23:00 to 7:30	Automatic Conditioning	Automatic Conditioning	Automatic Conditioning			Automatic Conditioning	Automatic Conditioning	Automatic Conditioning	Night 23:00 to 7:30	Automatic Conditioning	Automatic Conditioning