

X-Boxes Update



Currently in XBox2: updgrading of modulator

Dismounted SUs 1-10 from modulator + 2 spares

Waiting for Transport...

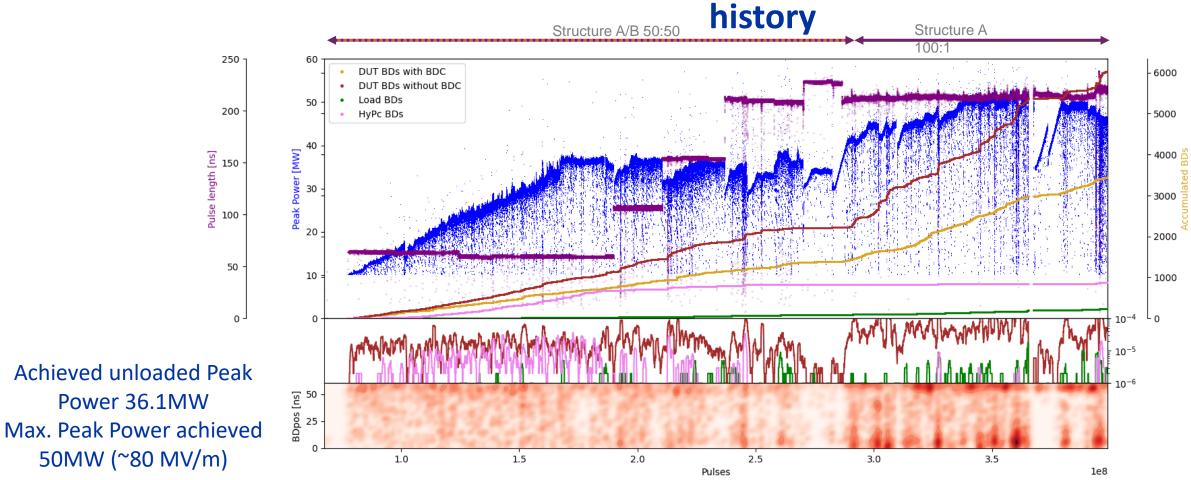






Xbox 2 TD31

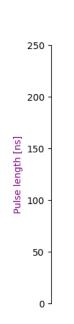
TD31N3 conditioning



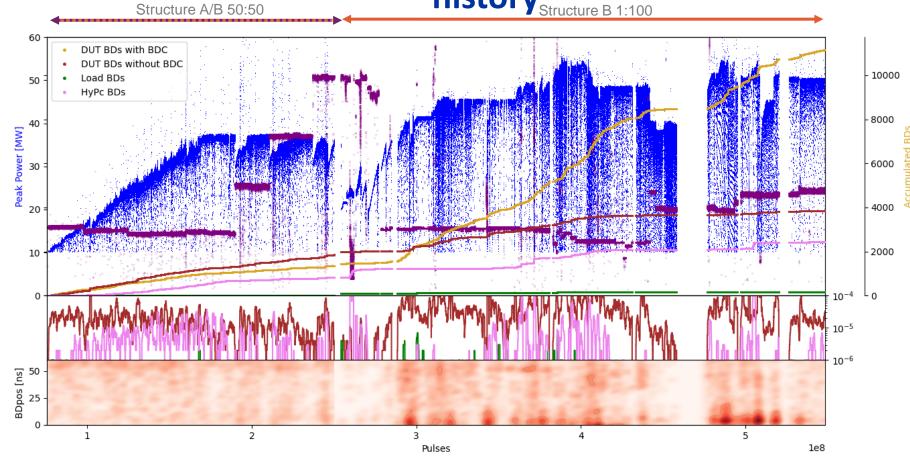


Xbox 2 TD31

TD31N4 conditioning history_{Structure B 1:100}



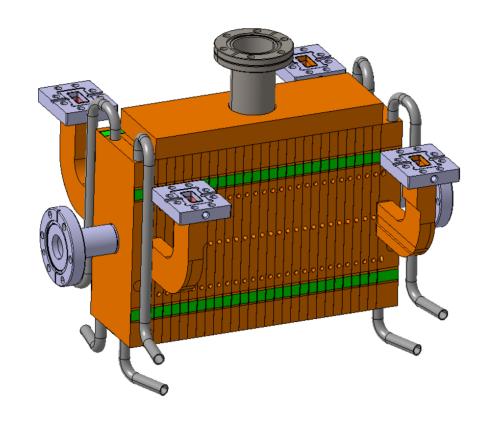
Achieved unloaded Peak Power 36.1MW Max. Peak Power achieved 54MW (~89 MV/m)





Xbox 2 future plans





Integration of Barrel Open Cavity pulse compressor for high power testing

Integration and high-power testing of Smartcell





Currently in Xbox 3 – Integration

Tas ▼	Task2	Description	Previou ▼	Responsible 🔻	Resources -	status
Α	Opening of Xboxes	(No a task) Waiting end of IMPACT for electrical works				done
В	Leak detector	(Not a task) Waiting for answer for repairing or buying leak detector				waiting for response
1	Klystron/modulator system					
1.1	Test of TDK Lambda	Previous test of units before installation	Α	AC	PAA/SGA	cancelled
1.2	Installation of TDK Lambda	Installation and configuration for remote control	1.1	PAA	AC/ SGA	waiting for transitions
1.3	Test of TDK Lambda	Test after installation	1.2	PAA		
1.4	Gain curves KLYA and KLYB	Curves @(nominal freq, nominal voltage)	1.3	PAA		
2	Test of structures TD26 and TD31					
2.1	Leak test of TD26		В	SGA		
2.2	Leak test of TD31		В	SGA		
2.3	RF test of TD26		2.1	PAA		
2.4	RF test of TD31		2.2	PAA		
3	Integration of structures					
3.1	Integration plan for TD26	Define components needed and define plan		PMS	SGA, PAA	done
3.2	Search components needed	Search components listed in integration plan and do shopping list	3.1	KSK		waiting for list
3.3	Search ion pump supports		3.1			
3.4	Search RF structure supports	search in stock for supports for both structures	3.1			
3.5	Manufacture support for ion pump	only if no supports available	3.3			
3.6	Manufacture support for structures	only if no supports available	3.4			
3.7	Pulse compressor pipes	Manufacture and install new pipes	Α			
3.8	Order/Buy components needed		3.2	PMS	SGA	
3.9	Break vacuum		Α	SGA		done
3.10	Deinstall HPDCs+loads in lines 1 and 2		3.9		KSK, PAA	done
3.11	Install structure TD26 and components		3.10		PAA, KSK	
3.12	Check structure TD31 and line2		Α	SGA	KSK, PAA	

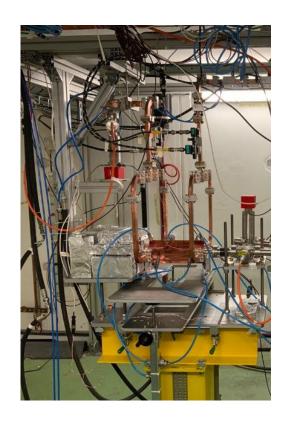


Currently in Xbox 3 – Integration

3.12	Check structure TD31 and line2		Α	SGA	KSK, PAA	
3.13	Baking of waveguides		3.11,3.12	SGA	PAA, KSK	
3.14	Start pumping lines		3.13	SGA	KSK	
4	RF channels					
4.1	Define RF channels needed			PAA		done
4.2	Verify RF cables	Verify labels and channel in ACQ system for every RF cable+ meas. Attenuation	A, 4.1	PAA		in progress
4.3	Calibration of ADC cards	High power calibration of cards	4.2	PAA		
5	Chillers					
5.1	Test chillers			SGA	AC	done
5.2	Manufacture new extended wiring			AC	KSK	
5.3	Upgrade switchboard		Α	AC	SGA, KSK	



Xbox 3 future plans





Continue conditioning of TD31 N1

Cnditioning of structure TD26 from CIEMAT

LP test of iFast accelerating structure + conditioning (?)





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X-Box 2: Reminder on BD classification

