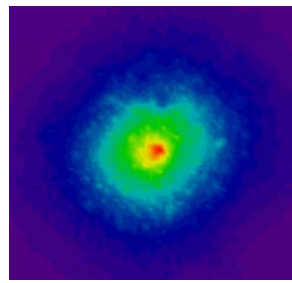


Aluminum test matrix on XAPPER

Fluence was $\sim 0.8 \text{ J/cm}^2$

Spot size is $1/e$ spot size is 1.1 mm (FWHM is $820 \mu\text{m}$)

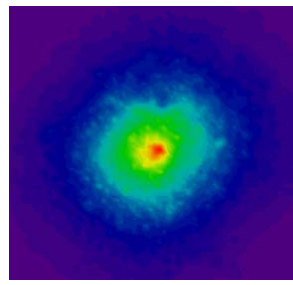


Magnification	Unexposed material	1000 shots @ 10 kV	10,000 shots @ 10 kV
50x			
100x			
150x			
300x			
600x			
1000x			
3000x			
6000x			

Wolfram test matrix on XAPPER

Fluence was $\sim 1 \text{ J/cm}^2$; Irradiated for 15 minutes @ 10 Hz (9000 pulses)

Spot diameter ($1/e$) is 1.1 mm (FWHM is $820 \mu\text{m}$)



Magnification	Single crystal tungsten		Powder met. tungsten	
	Unexposed	Exposed	Unexposed	Exposed
150x				
400x				
1500x				
3000x				
6000x				
10,000x				