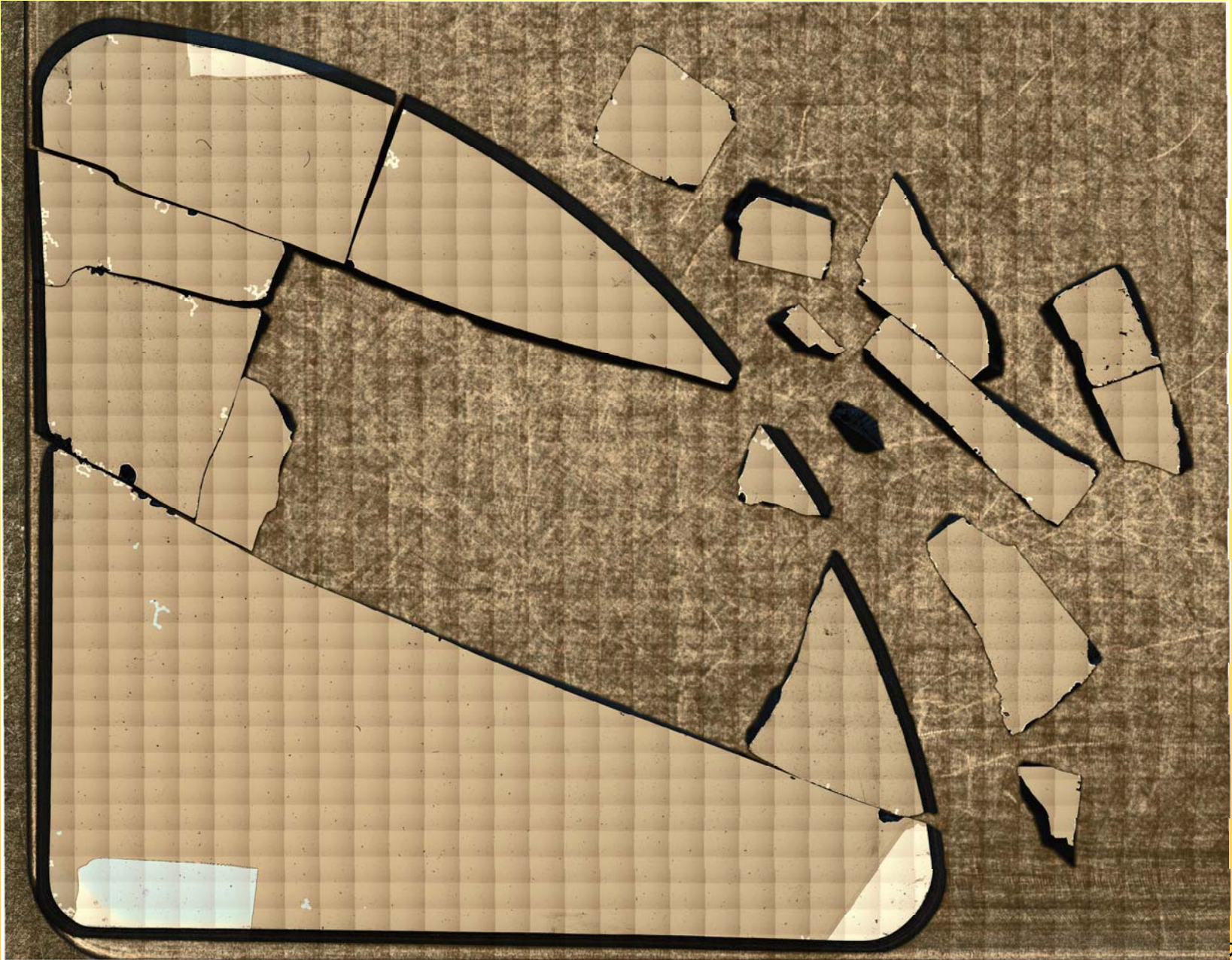


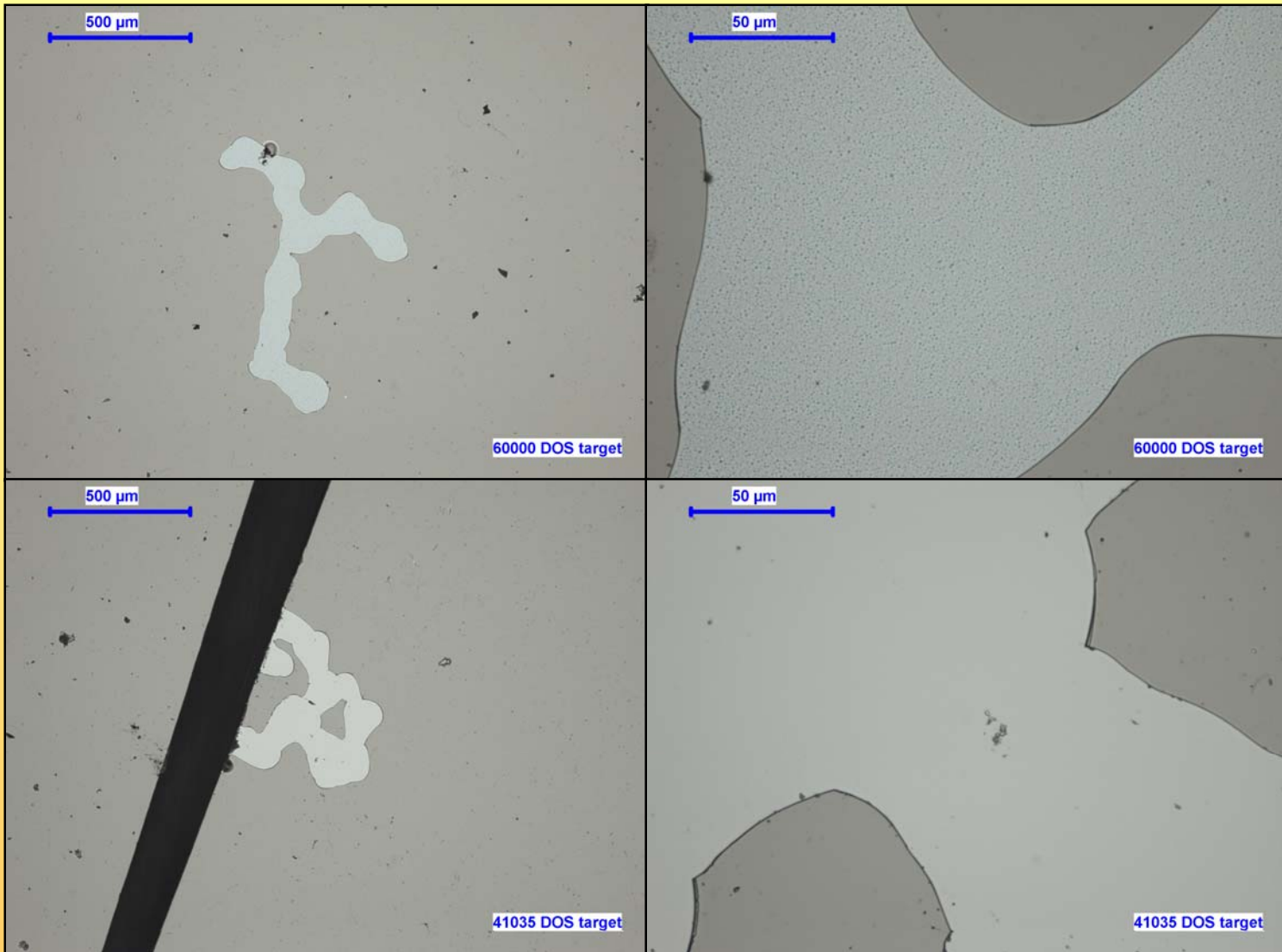


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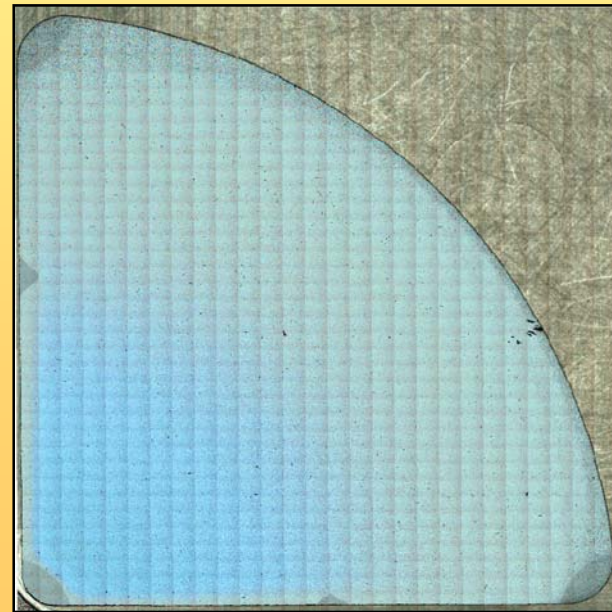
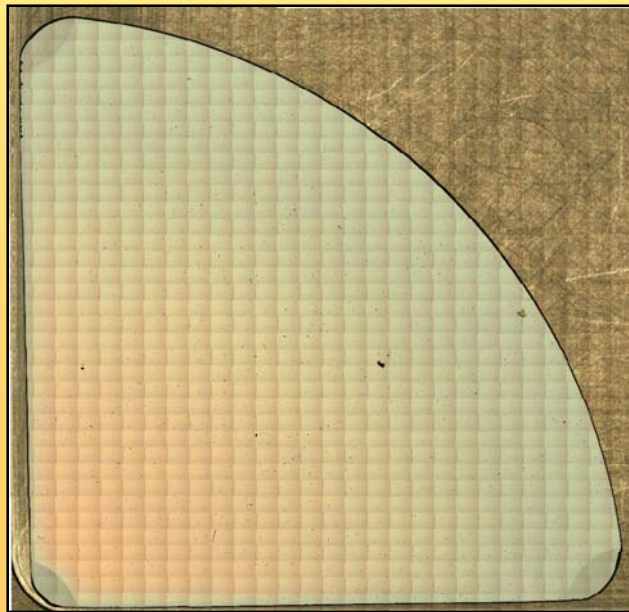
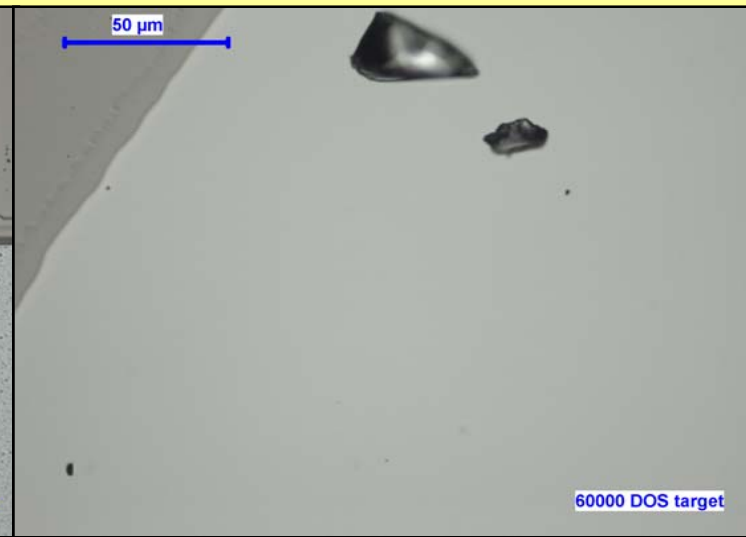
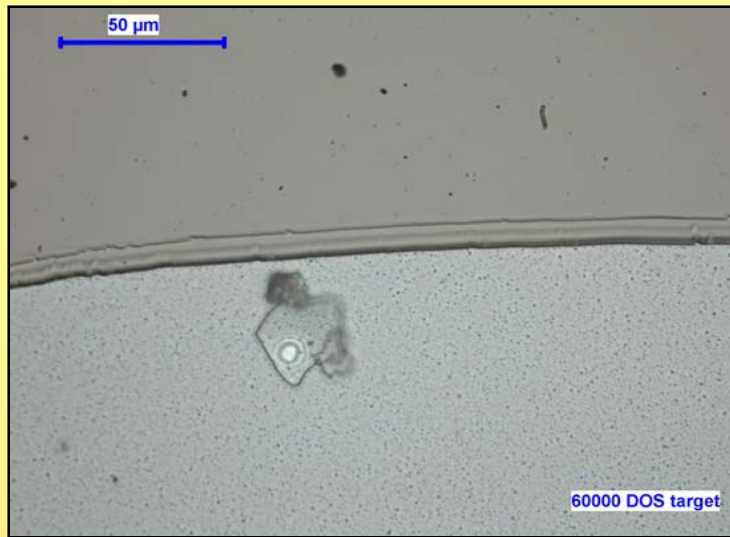


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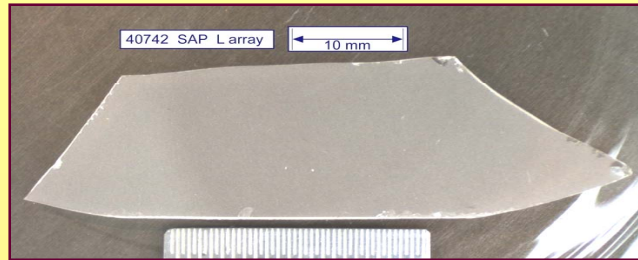
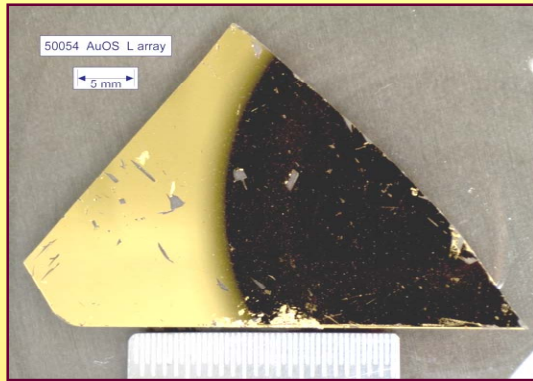
Regime	Average Thickness, μm	Minimum Value, μm	Maximum Value, μm
Concentrator	564 \pm 4	557	573
L array	558 \pm 4	547	572
H array	603 \pm 5	592	621
E array	649 \pm 6	632	665
B/C array	702 \pm 4	689	718



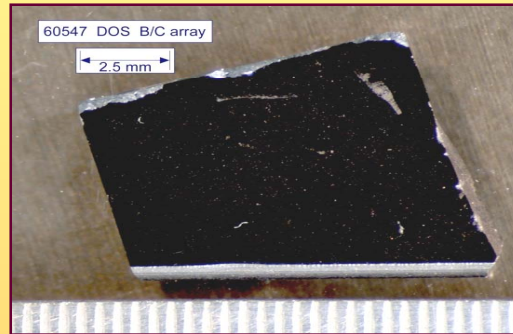
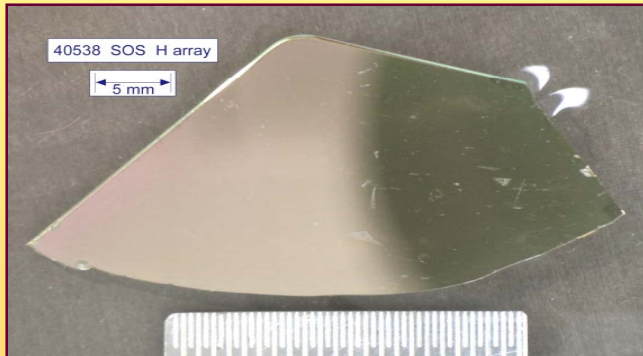
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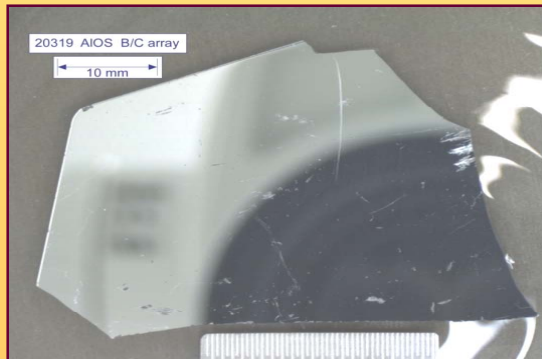
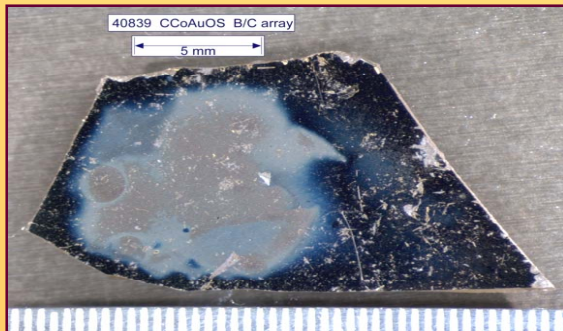
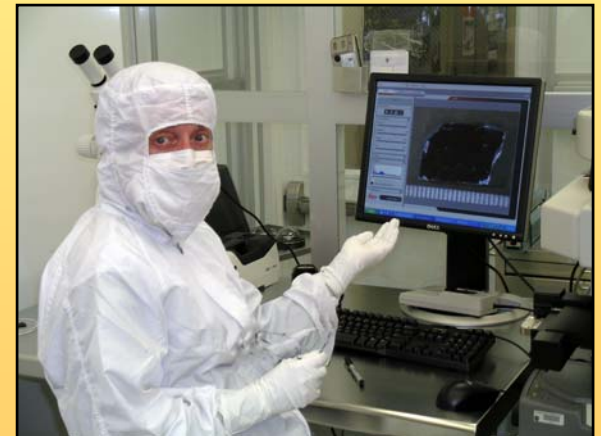
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SAMPLE CHARACTERIZATION & CATALOGING



1500 samples cataloged



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Total cataloged is 18% by area

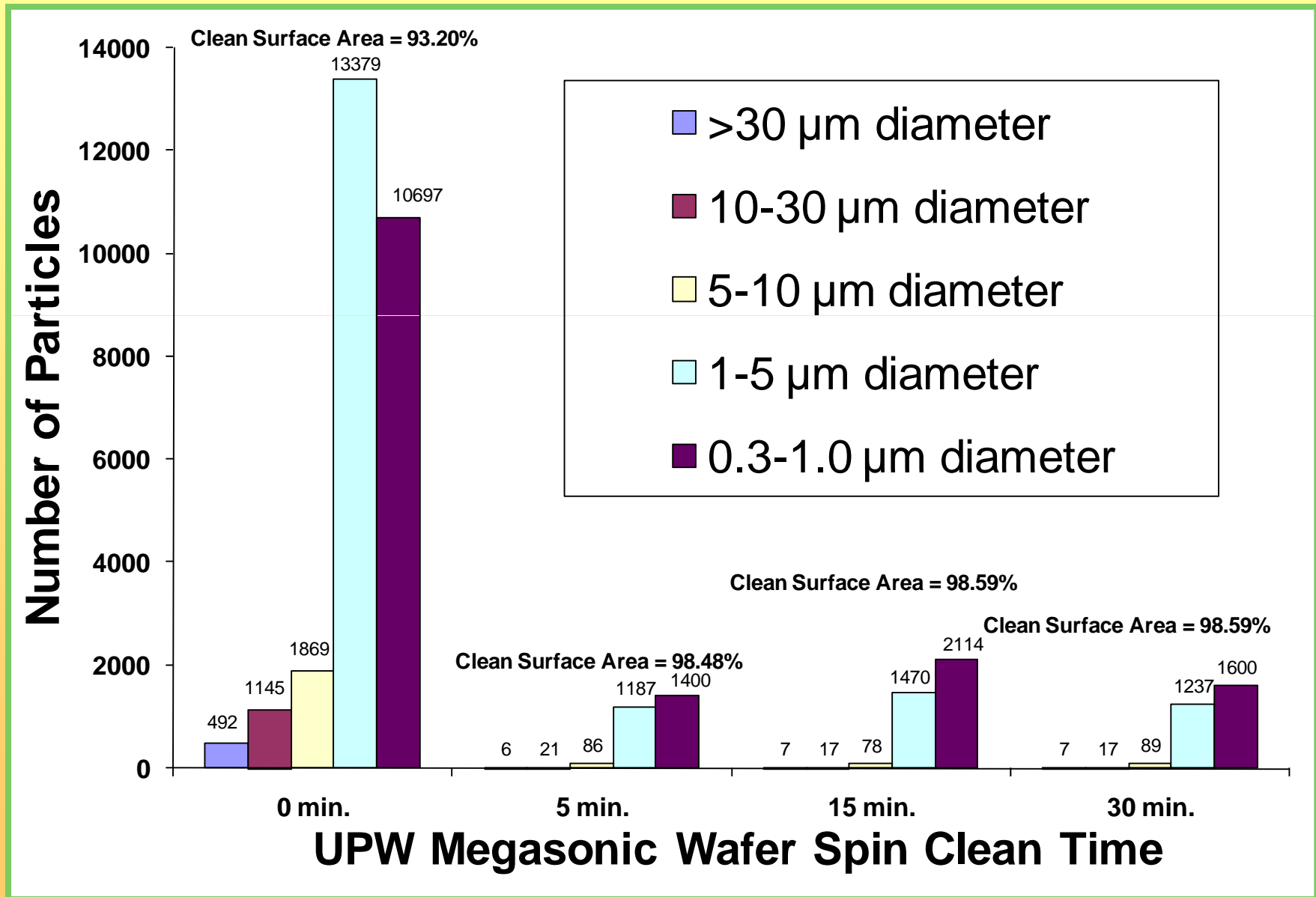
57% by number are excluded –
small samples are not represented

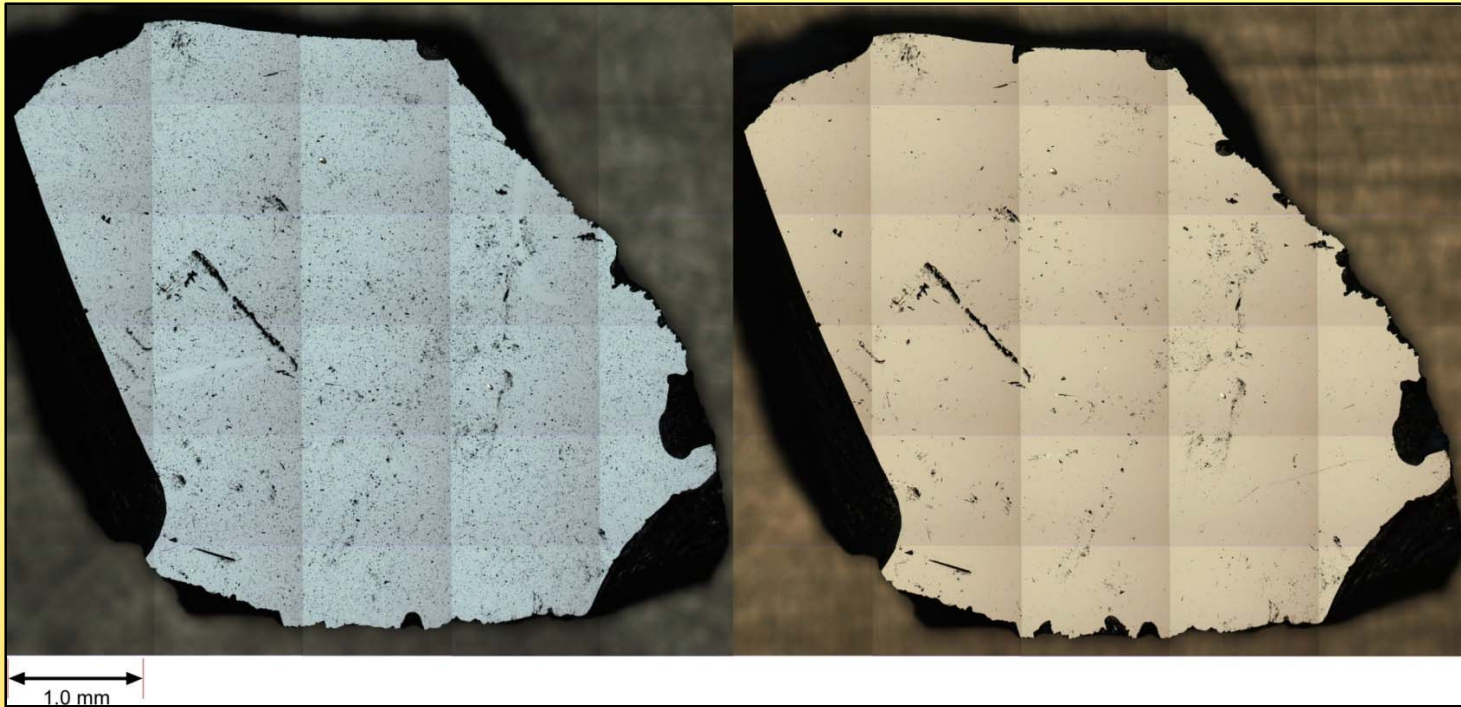
**EXAMPLES OF SAPPHIRE-BASED
VS SILICON-BASED**

AuOS	No. of samples	< 1 cm ²	1- 3 cm ²	>3 cm ²
B/C	88	25%	48%	27%
E	73	8%	48%	44%
H	64	9%	47%	44%
L	26	12%	62%	27%

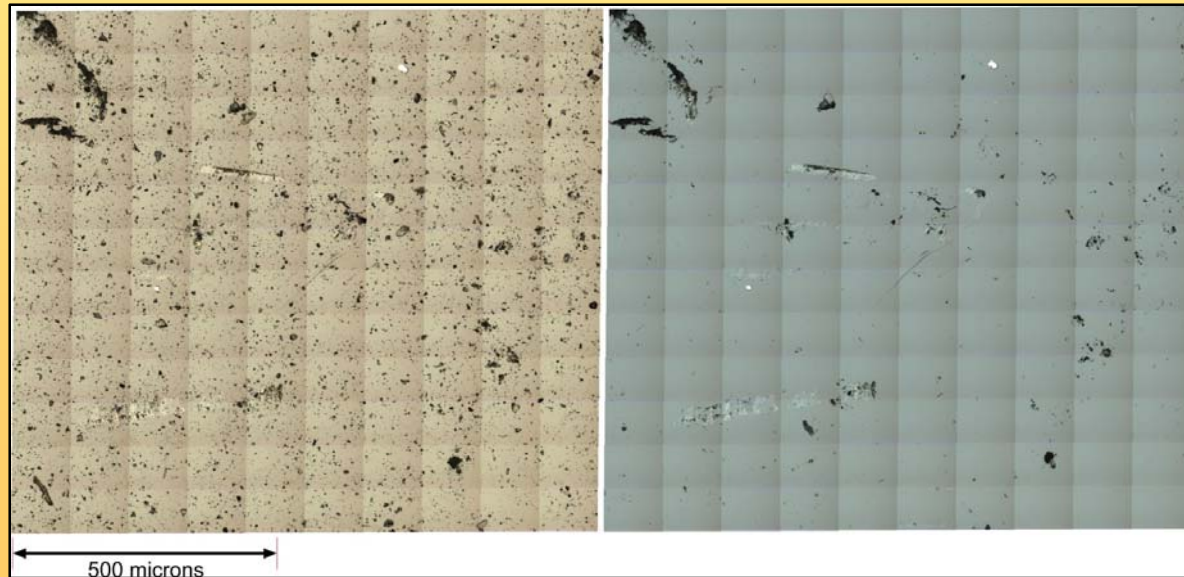
Si FZ	No. of samples	< 1 cm ²	1- 3 cm ²	>3 cm ²
B/C	111	95%	5%	-
E	42	95%	5%	-
H	27	89%	11%	-
L	24	96%	4%	-

UPW Wafer Spinner Cleaning Time

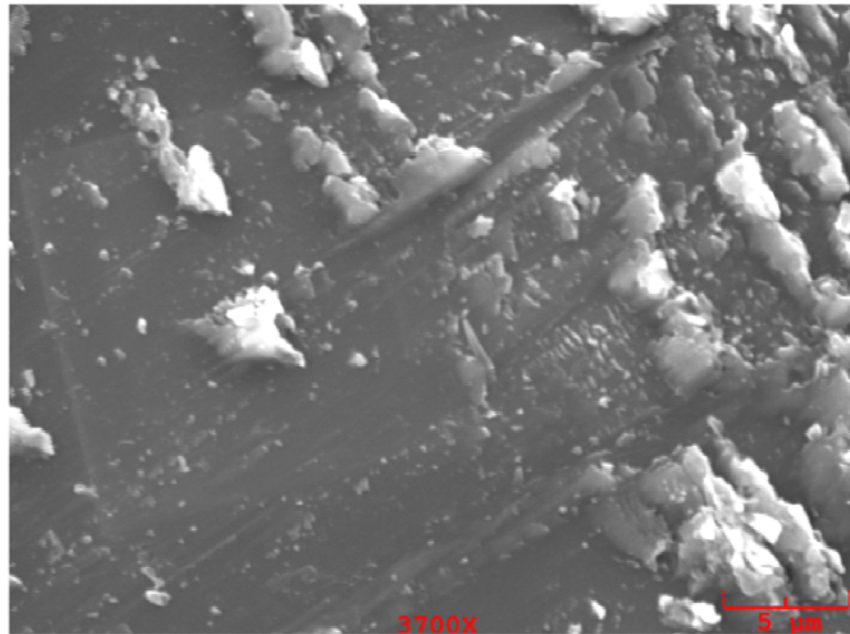
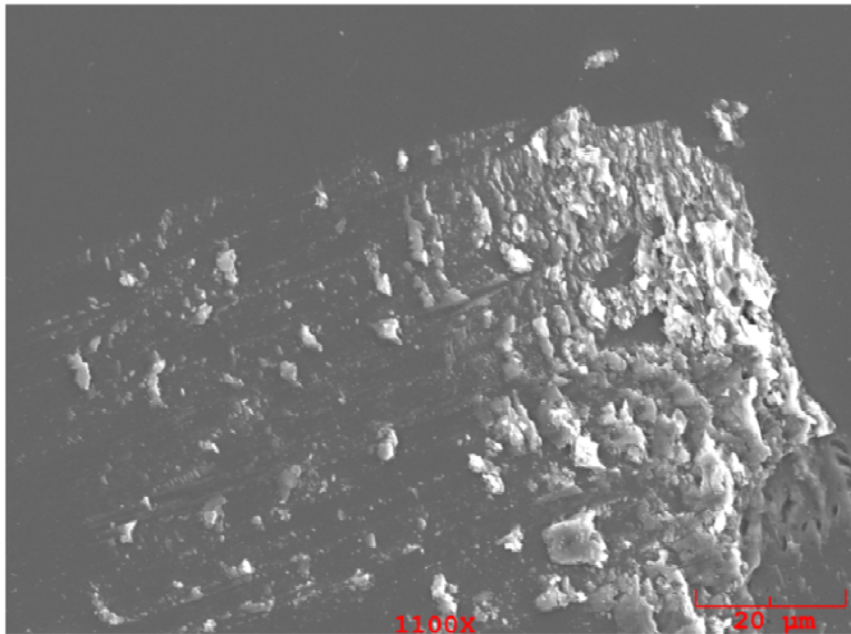




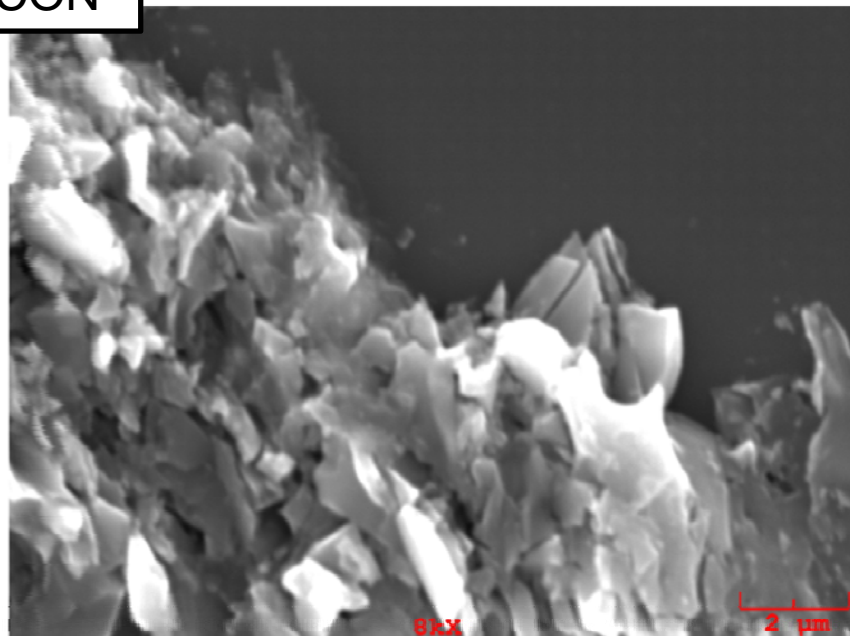
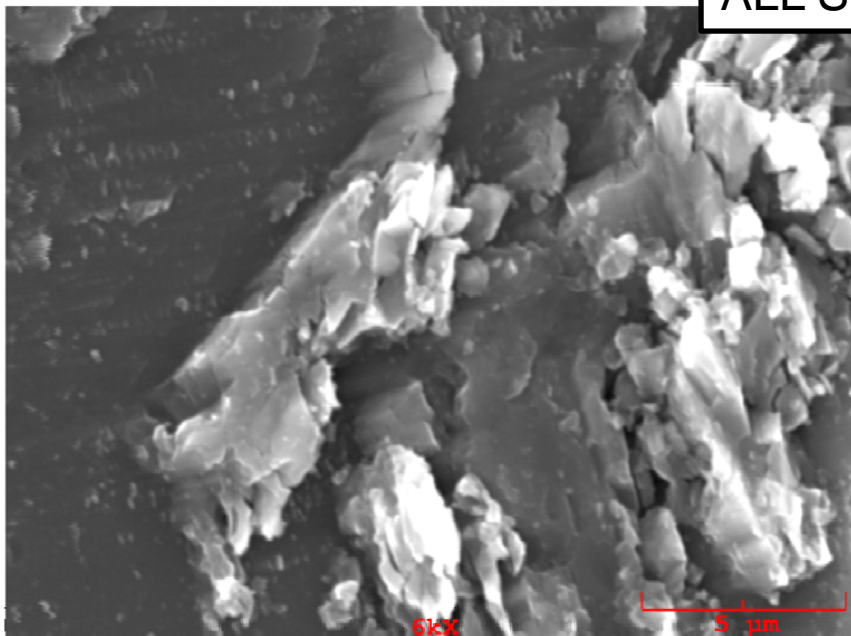
B/C
FZ silicon
60458



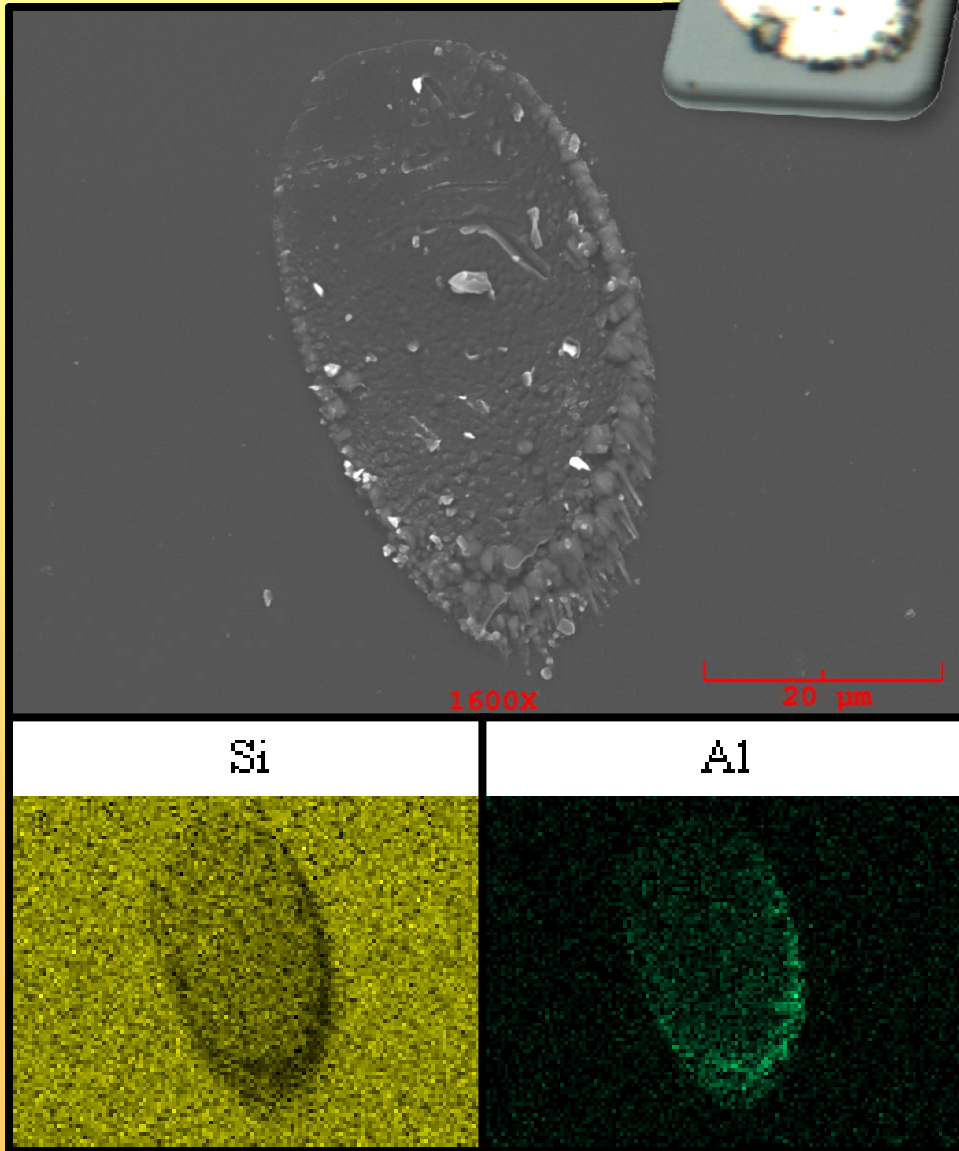
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ALL SILICON



White spots on Silicon



Possible Contamination Source?

Aluminum from ablator?



ON

12



Astromaterials Curation

Solar Wind Samples

+ ARES - CURATION HOME + WELCOME + SAMPLE REQUEST DATES + PERSONNEL + SITE MAP + LINKS

Genesis Samples Catalog

Materials	Regime	Sort Options
Select a material:	Select a regime:	Sort by:
<input checked="" type="radio"/> Aluminum on Sapphire	<input checked="" type="radio"/> Bulk Solar Wind	<input checked="" type="radio"/> Sample Number
<input type="radio"/> Gold on Sapphire	<input type="radio"/> Coronal Mass Ejection	<input type="radio"/> Sample Length
<input type="radio"/> Carbon-Cobalt on Sapphire	<input type="radio"/> High Speed Solar Wind	<input type="radio"/> Sample Area
<input type="radio"/> Diamond-Like Carbon on Silicon	<input type="radio"/> Low Speed Solar Wind	<input type="radio"/> Sample Availability
<input type="radio"/> Germanium		<input type="radio"/> Material Condition
<input type="radio"/> Sapphire		
<input type="radio"/> Silicon		
<input type="radio"/> Czochralski Silicon		
<input type="radio"/> Float Zone Silicon		
<input type="radio"/> Silicon on Sapphire		



Calaway, M., E. K. Stansbery and L. P. Keller (in press) Genesis capturing the sun: Solar wind irradiation at Lagrange 1, *Nuclear Instruments and Methods in Physics Research B*.