

2312145 TiO 8 360 1 ~ 3,7 nA

2312146 TiC 8 360

2312147 Ti 5 400

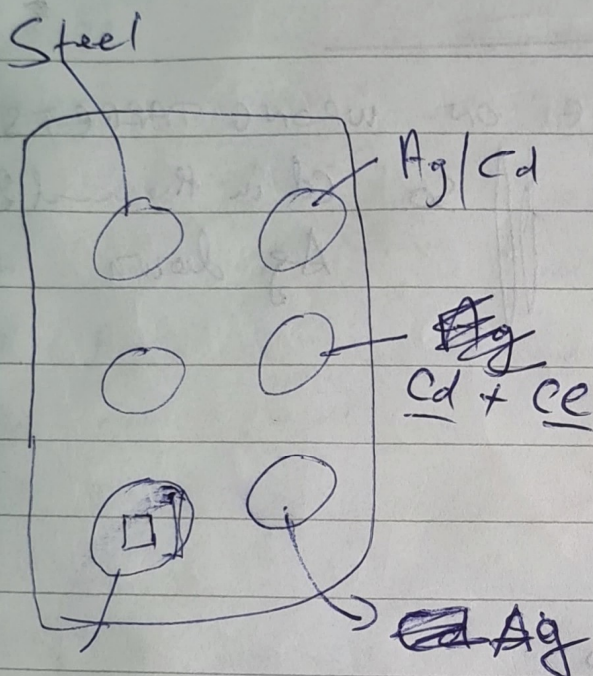
2312148 TiO₂ 8 360

PAZI → { 2312147.0 raw
PABRISAN

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18/12/2023

HR PIXE; 8 MeV H⁺



Crystal: PET(002)

Peaking at 3mm

Position at 12,5 cm

Crystal changed to Si(111), peaking at 3mm

FILE	SAMPLE	texp/s	Nframes	COMMENT
2312149	304 Steel		SDD	
2312150	Ag	5	1	AgLx visible in Vista on ch ~ 160
2312151	DARK	4	10	
2312152	Ag	4	600	1 ~ 2,5 nA
2312153	Ag	20	1	
2312154	Ag	4	400	+PIXE+RBS
2312155	Cd	5	20	
2312156	Cd	4	400	- 11 -

2312157	Ag Ag	15	1	line on chn 510
2312158	Ag Ag	15	1	line on chn 880
2312159	Ag Ag	4	20	-11-, 1~1,8nA, +PIXE (⇒ nothing in front of that line)
2312160	Ag	15	1	Lx on chn 300
2312161	Ag+Cd	30	1	
2312162	DARK	10	10	
2312163	Ag+Cd	10	20	+PIXE spectrum

PREVIOUS FILES WERE ON WRONG TARGETS

Ag → Cd + Cl || so Cd in the middle
 Cd → Ag || Ag down

2312164	Ag+Cd	MAP		
2312165	POINT 1	Ag		
2312166	POINT 2	Ag		
2312167	POINT 3	Cd		
2312168	POINT 4	MIXED		
2312169	Ag Cd (+ Cl)	t _{exp} = 4s	N _{frames} = 100	
2312170	Ag	t _{exp} = 6s	N _{frames} = 100	
2312171	MAP	Ag + Cd		
2312172	Ag (point)	(cursor at 98.90)		
2312173	Ag point	at 99.80		
2312174	Ag + Cd	at 82.51		
2312175	Ag + Cd	40	100	+ SDD

19/12/2023

HR PIXE, 2 MeV Hit VDC ~ 1 nA

2312176 - Cd 10 10

2312177 - Cd 10 10 // Crystal moved
↳ on 11,7 cm

2312178 Ag+Cd scan; SS 1x1

2312179 - 11 - → ROI } 1st ROI
2312180 - 11 - } in map
2312178 } + PIXE } } temp/s = 10s
Nfr = 100
for each file

2312181 Ag+Cd new area, SS = 1x1

2312182 Ag+Cd, zoomed out, SS = 2,5x1

2312183 ROI in 2312182 map | temp = 10s | Nfr = 100 | 1 ~ oscillating 0,6-1 nA } + PIXE
2312184 - 11 - 10s 200

2312185 Ag+Cd (-182 map zoomed in with high Ag in the middle) SS 1x1

2312186 - 11 - SS 0,5x1

2312187 ROI in 2312186 map 10s 200 + PIXE (discard first frame)

2312188 - 11 - 10s 100 images + PIXE

2312189 Cd+Ce 4s 100 images + PIXE

2312190 DARK 10 frames 4s

2312191 Ag 4s 100 images + PIXE

R-PIXE

20.12.2023.

2 MeV C⁴⁺, VDG

focus: Ne 36,6 A

Ox 75,0 A

10 nA on metal

FILE	SAMPLE	temp/s	Nfr	COMMENT
2312192	CdCl ₂	10	1	~4nA, maybe a little bit to many events in one frame
2312193	DARK	3	10	
2312194	CdCl ₂	3	720	+PIXE, ~4-6nA
2312195	Ag DARK	3 6	10	
2312196	Ag	6	450	~1,3-5nA (very unstable!)
2312197	Ag	6	230	for ~30min there was no beam
2312198	Ag	6	230	
2312199	Ag + Cd	Scan SDD, SS: 2,5 x 1		
2312200	Ag + Cd	6	1	(ROI 1)
2312201	Ag + Cd	3	720	+ SDD (ROI 1)
2312202	Ag + Cd	3	360	+ SDD (ROI 1)
2312203	Ag + Cd	3	720	+ SDD (ROI 2)