

Sad ćemo ujeriti change da bude 10x manji nego u prvom ujeranju, onda ćemo jednako uremena ujeriti tabletu.

→ the current fell → ~ 5kHz (from control room they say they cannot increase it...)

2307003 Sample 34046 $\Delta t = 192s$

= Charge counter = $5,02 \cdot 10^6 \times 19 - 500A$

2307004 Pellet $\Delta t = 192s$

(rate on FC before ~ 5-6kHz)

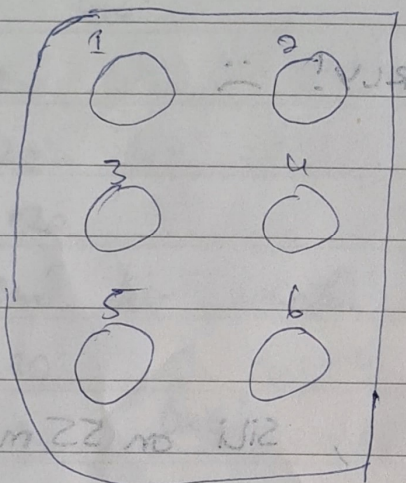
- checking the rate after: ~ 3,5kHz

END

05/07/83

Users: Masedi, Iva, Anja, Stjepko

HR PIXE; Sn L α measurement



1. Sn 100 μm Foil
2. Soldering wire (Sn, Pb...)
5. Quartz
6. Schrittlating paper

- SDD connected

- Ge (220) - peaking at 3mm from the holder
 $2\theta = 4.0^\circ$. Crystal distance: 79mm

2 MeV Protons

2307005

Sn (SDD) at 0,2 nA

2307006 = Solder wire (SDD)

Focus: $M_e = 17,2$; $B_x = 35,2$

| File | SAMPLE | #Expositions | Time(s) | Commands |
|---------|----------------------------|--------------|---------|-------------|
| 2307007 | Sn | 1 | 45 | Initial |
| 2307008 | DARK | 10 | 4 | channel 360 |
| 2307009 | L ₂ measurement | 600 | 4 | |
| 2307009 | SDD | 10 | | Dark |

12 MeV C⁴⁺ 1 nA M_E - 36,4 O_r - 74,3

| | | | | |
|---------|----------------------------|-----|---|---------|
| 2307010 | Test | 1 | 5 | ~4 nA |
| 2307011 | Dark | 10 | 5 | ~4,5 nA |
| 2307012 | Measurement | 600 | 5 | |
| 2307012 | SDD (SPECTR) | | | |
| 2307013 | Measurement L ₂ | 600 | 5 | |
| 2307013 | SDD (SPECTR) | | | |

HR PIXE - Sn L_α measurement

- same samples and crystal as yesterday

VDG, 10 MeV C⁴⁺

Focus: Me 33,2 A

(Ox) 67,9 A

| FILE | SAMPLE | N _{frames} | t _{exp} / s | COMMENT |
|---------|--------|---------------------|----------------------|---|
| 2307014 | Sn | 1 | 20 | 1 ~ 3,5 nA on sample |
| 2307015 | DARK | 10 | 10 | |
| 2307016 | Sn | 1 | 10 | collimator slits opened a bit, 1 ~ 5 nA on sample |

→ Matlab analysis $\Theta W = [800, 100]$

| | | | | |
|---------|----|-----|----|---|
| 2307017 | Sn | 300 | 10 | SDD spectrum also collected ↳ rate ~ 2 kHz - 1,8 kHz |
| 2307018 | Sn | 450 | 10 | - 11 - (everything in 2307017) |
| 2307019 | Sn | 300 | 10 | - 11 - (rate ~ 2,2 - 2,6 kHz) |
| 2307020 | Sn | 450 | 10 | new Spector file... 2307020.dat ↳ beam lost at file ~ 200. 170 |
| 2307021 | Sn | 150 | 10 | +SDD: 2307021.dat |

HR PIXE - SnLx measurement

VDG, 8 MeV C^{3+}
Focus: Me 38,9 A
Ox 82,0 A

- everything in chamber the same as yesterday

| FILE | SAMPLE | N _{fr} | t _{exp/s} | COMMENT |
|---------|--------|-----------------|--------------------|--|
| 2307022 | Sn | 1 | 10 | |
| 2307023 | DARK | 10 | 10 | |
| 2307024 | Sn | 300 | 10 | + SDD spectrum (2307024.dat) ↳ rate ~ 2,2 - 2,5 kHz |
| 2307025 | Sn | 300 | 10 | + SDD spectrum (2307025.dat) |
| 2307026 | Sn | 300 | 10 | + SDD (SPECTOR) |
| 2307027 | Sn | 300 | 10 | + SDD (SPECTOR) rate ~ 2.2 kHz |

END