

Thursday 14 November 2013

Wigner Memorial Tour in the 'Fanoel' Lutheran Secondary School - Aida (09:00-10:00)

Scientific Tour nearby the 'Fanoel' Lutheran Secondary School - In front of the (10:00-11:00)

Transport in the Wigner RCP of the HAS and the Wigner Datacenter - In front of the (11:00-12:00)

Visit of the Wigner Datacenter - Panoramic Conference Hall, 2nd floor, 208 (12:00-12:30)

Welcome by the Chairs - Panoramic Conference Room, 2nd floor, 208 (12:30-12:50)

Registration at the Panoramic Conference Room - Panoramic Conference Room, 2nd floor, 208 (12:50-14:00)

Inauguration of the Wigner Square - In front of the (14:00-14:20)

Lieber Olaf

das Auge (mein Auge)
sieht keinen Unterschied,
also kann es laufen z.B.
bis 10^6 oder Montag.

Gruß
Berthold

Mail mit deiner Mail-Adresse

Meine: spielmeyer@uni-mainz.de

17 Nov 2013

13⁸⁵

elapsed time 35.43 stopped

cp5 6038

Cursor 1 798453

Cursor 2 799786

MS-fas-iron-2013nov17
17a

wiedererstartet, keine Änderung in cursor counts ??

18 Nov 2013

9²⁰

elapsed time 1.53 stopped

Cursor 1 42704 Cursor 2 42449

MS-fas-iron-2013nov18

PK

18 Nov 2013 9²⁵

restart program

⇒ elapsed time 18.14

Cursor 1 ~4065000

Cursor 2 ~407000

HS-fas-iron-2013 nov 18 a

saved HS-fas-iron-2013 nov 18 b

@ 16:32

absorber replaced by the single line PFC

@ nov 18 16:44

20 Nov 2013 11³⁰

elapsed time 42⁵⁵

Cursor 1 1150926

Cursor 2 1154108

drive frequency 12 Hz

reduce frequency to 6 Hz; ~~inter~~ counter

PHA 5.3 kHz

MCS 7.4 kHz

L+Ni: 890 Hz

22 Nov 2013 10¹⁵

stop, save HS-pfc-iron-2013 nov 22.5 pm

elapsed time 46.28

Cursor 1: 1243595 Cursor 2: 1242113

PHA: 5.3 kHz / 510 Hz

with Ni

MCS: 7.4 kHz / 890 Hz

22 Nov 2013 10³⁰

(5)

2x MCS spectra, each 5 Min:

1 with Ni : 2013nov22_5g - ~~Ni~~ ^{5min} - Ni

1 w/o Ni : 2013 nov 22 - 5g ~~5min~~

22 Nov 2013 11⁰¹

back to Mohr's salt

- smaller pinhole ϕ 8mm

\rightarrow count rate decreases

\rightarrow window shifted in PNA

old window: 1380 - 2220

new window: 1480 - 3000

\sim 3.2 kHz 4.0 kHz

11.9% 380 Hz 560 Hz 13.6%

PNA MCS

start at 11³⁵

24 Nov 2013 10⁵⁰

MS_fas_30deg_ivon_2013nov24a.spn

elapsed: 47:14 Cursor 1 679883 Cursor 2 678385

MS_fas_30deg_ivon_2013nov24b.spn

24 Nov 2013

- 14⁰⁰ - 10mm Blende
- Magnetfeldkath fixiert
- Magnetfeldkath - ~~flap~~ ca. 5° gedreht

<u>Fährtak</u>	MCS	PMA
	5.5 kHz	4.3 kHz ohne Ni
12.5%	6.9 kHz	4.6 kHz ^{10.7%} mit Ni

mess Fench: 1380 - 2970 mV

<u>Fährtak</u>	MCS	PMA
	5.5 kHz	4.3 kHz ohne Ni
13.3%	7.3 kHz	4.8 kHz ^{11.1%} mit Ni

15⁴⁵ 8mm pinhole:

Fench 1500... 3000 mV

	MCS	PMA
	4.1 kHz	3.25 kHz ohne Ni
17.1%	5.6 kHz	3.5 kHz ^{14.7%} mit Ni

15⁵⁰ start

25 Nov 2013 10³⁰ HS - fas - 30deg - ivon - 2013nov 25a. spm
 16³⁵ HS - fas - 30deg - ivon - 2013nov 25. spm

26 Nov 2013 8²⁵ 26a
 18⁴⁵ 26. spm
 27 Nov 2013 10¹⁰ 27a
 16⁵⁰ 27. spm
 28 Nov 2013 15³⁰ 28. spm

2013 Nov 28

(5)

Background measurement:

2 min MCS no Ni : HS_fas_30deg_iron_2013Nov28_5g.spm

2 min MCS with Ni :
 - - - - - Ni: 5 pm

MS auf 0° gebracht ("12:00")

2 min MCS no Ni : HS_fas_0deg_iron_2013Nov28_5g.spm

2 min MCS with Ni :
 - Ni: 5 pm

16:05 Start

2013 Dec 04 stop 137:02 hours

9:10 Cursors ~ 1,930 000

HS_fas_0deg_iron_2013 dec 04.spm

2013 Dec 04 / 9:15 turn MS to 60° ("14:00")

1500 - 3100 eV PNA MCS

11,9% $\left\{ \begin{array}{l} 3.1 \text{ kHz} \\ 370 \text{ kHz} \end{array} \right.$ 4 - 4.1 kHz no Ni
 580 kHz with Ni

Background: HS_fas_60deg_iron_2013dec04_5g - Ni.spm

(2 min.) HS_fas_60deg_iron_2013 dec 04_5g.spm

9:30 Start

2013 Dec 05 / 9:30 HS_fas_60deg_iron_2013 dec 05 a.spm
 20:05 5.spm

2013 Dec 06 8:50 06 a.spm
 17:00 65

2013 Dec 07 9:00 07a
 Dec 08 10:15 07

2013 Dec 08

6

11⁰⁰ Turn fas to 90°-position (= "03:00")

PHA	MCS
3.2 kHz	4.05 kHz w. Ni
360 Hz	560 Hz with Ni

PHA - window: 1500 - 3100 mV

A: 200 mV/div
B: 10 mV/div

<u>error signal</u>	6 Hz	Bild 0216	
		1%	
	12 Hz	Bild 0219	4
		1%	
		on scope smaller error	
	18 Hz	Bild 0221	
		1%	wave (?) on scope
	22 Hz	Bild 0223	wave!
		1%	
	15 Hz	Bild 0225	be k
		1%	
	13 Hz	Bild 0227	
		1%	
	11 Hz	Bild 0229	high frequency beyond?
		1%	
	12 Hz	Bild 0231	frequency response finally
		1% 0233	"D"

2013 Dec 08

(7)

12:20 start MB - spectrum
fas at 90°

2013 Dec 09

17¹⁰

MS_fas_90deg_iron_2013dec09a.spn

2013 Dec 10

9³⁰

10a.spn

2013 Dec 11

7:30

11a.spn

2013 Dec 12

2013dec

11:25 MS_fas_90deg_iron_12.spn

start 94:58

current: 1.311

2013 Dec 12

Single line absorber mounted / window 1500... 3100nm ✓

PH4

MCS

3.6kHz

4.6kHz

390Hz

560Hz

11⁴⁵

start

2013 Dec 13 18²⁵ MS_pfc_iron_2013dec13.spn

2013 Dec 16 10⁵⁰

16a.spn

16.spn

From source clockwise to "old" position

(8)

2013 Dec 16

MCS

PHA

4.5 kHz

3.6 kHz

570 kHz

380 kHz

mit Ni

17⁰⁰ Start

