

* Error W/ pdf
savings, retrieval

Written test + Oral exam

Am - sample:

analyze signals: preamp, main and
left 1, 2,

Am Spectrum with right det
→ swapped labels Am 1

Am Spectr. w/ left det Am 2 / Am 2-2 / Am 3*
compare signals 1 and 2 beam
preamp

~~noticed ~~the~~ error in labels~~

Co-Sample

L₁, L₂ Spectrum

R₁, R₂ Spectrum

- label no error

→ L₁: Left sensor "screw"

L₂: Left sensor "cobalt"

R₁: Right sensor "screw"

R₂: Right sensor "cobalt"

calibrating Thresholds:

lower threshold "low threshold"

calibrating high thr.

→ too wide, esp. right side

⇒ recalibrating high thr.

~~Test run done~~

Baib circuit for com.

- negative inputs have to be used
- 'anti-corac' ← no "gate" sig

1st test run:

- decrease channel Nr 1024 → 512
- Incr. delay $2 \times 66 \text{ ns} \rightarrow 3 \times 66 \text{ ns}$

2nd test run:

Everything ok

- Started 15h - Measurement over night

Stopped 15h - Meas.

Time-calibration of the TAC

- Max delay: $3 \times 66 \text{ ns}$

↓
not 66 but $66,5 \text{ ns}$?

Max. delay: ^{ch₄} 183 190,5 ns
180 186,5 ns

176/177 182,5

173 ^{stronger} 178,5

166/167 178,5

^{for stronger} 153 154,5

139 139,5

126/125 122,5

112 106,5

99/98 90,5

90 90

Ch	Delay
<u>85/84</u>	74 ns
71	58
58	42
54	38
51	32
48	30
44	26
41	22
38	18
35	14
<u>32/33</u>	10
30	6
28	2
"	1,5
27	1
"	0,5
"	0 + 3 x 2,5 ns for all

Points in
Beginning
Signal due
to electronics

"Why not a sharper rise
after ex. rise?"

~~with # of~~
width of Bipolar signal
(temp): $\approx 4 \mu s$

→ uncertainty
→ small change in
Bip. sig. is big in
At plot

SCA takes

→ PA Preamp } Signals of
An Anode } the Preamp
usually close

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1.3, K. Bock