PMT measurements

Maryna Borysova



PMT &Voltage divider

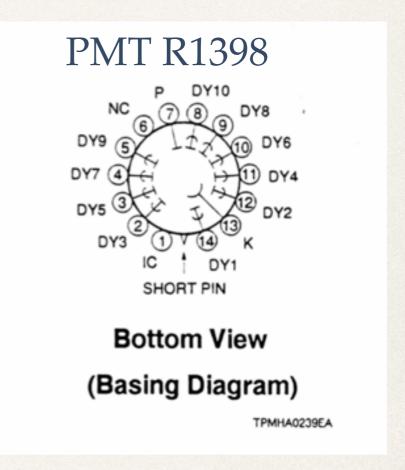




Testing Voltage divider

Supplied 9.08 V to voltage divider (cathode); Measured voltage in socket pins (dynode-anode)

Pin	DY	dV, V	V ratio
8	10	0.895	2.0
5	9	1.39	3.1
9	8	0.852	1.9
4	7	0.579	1.3
10	6	0.607	1.3
3	5	0.65	1.4
11	4	0.45	1.0
2	3	0.458	1.0
12	2	0.688	1.5
14	1	0.482	1.1
13	K	1.974	4.4



VOLTAGE DISTRIBUTION RATIO "A" AND SUPPLY VOLTAGE

Electrodes	K	Dy	/1	Dy2	Dy	/3	Dy4	D	y5	Dy6	Dy7	D	/8 [)y9	Dy10	Р
Ratio		4	1	1	.5	1	Ť	1.	1	TÍ.	1 1	1	1	Í.	1	1
Supply Voltage: 1500Vdo V: Cathoda Dui Dimada Di Anada																

Supply Voltage: 1500Vdc, K: Cathode, Dy: Dynode, P: Anode

Angebot



Pos	. Artikel-Nr. Beschreibung	Menge (Stk)	Einzelpreis EUR	Gesamtpreis EUR
1.1	E2624-14 Socket Assembly ROHS:C	1	236,36	236,36
		G	Sesamtbetrag Netto	236,36

RoHS: C = konform; L = Kann nur für medizinische Geräte, Kontroll- und Messinstrumente verwendet werden. N = nicht konform; U = Wenden Sie sich an Ihr lokales Hamamatsu-Verkaufsbüro

Im Falle einer Bestellung bitten wir Sie diese direkt an info@hamamatsu.de zu schicken.

Gültig bis: 05.09.2021

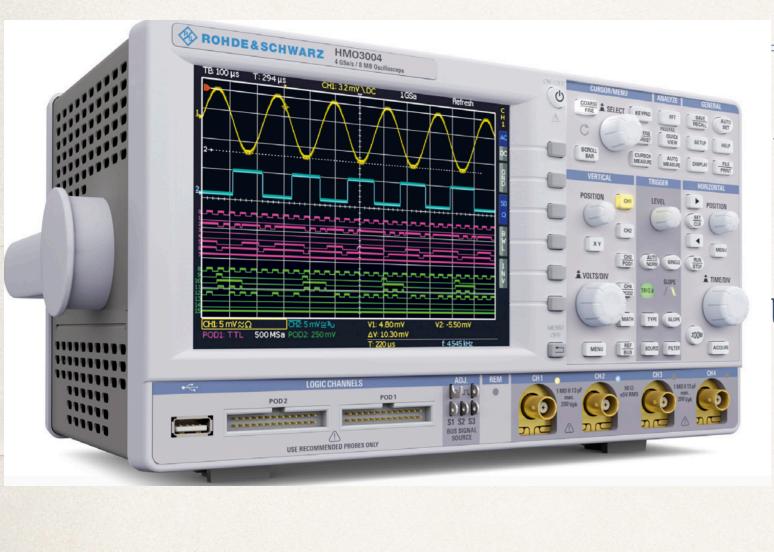
Lieferbedingungen: CIP (Fracht, Porto, Versicherung bezahlt) Hamburg (Incoterms 2010)

Zahlungsbedingungen: 30 Tage netto ca. 6 Wochen

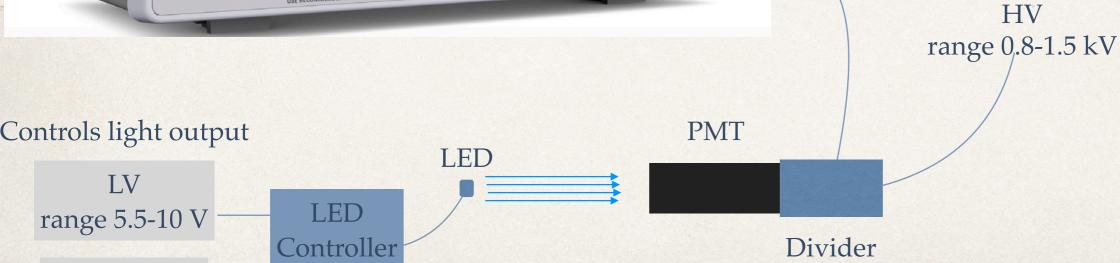
Test setup

Signal readout

Trigger Pulse



Digital Oscilloscope HMO3004
4 GSap/sec
4 analog channels
USB interface for signal storage



Signal

-3

-10

20

10

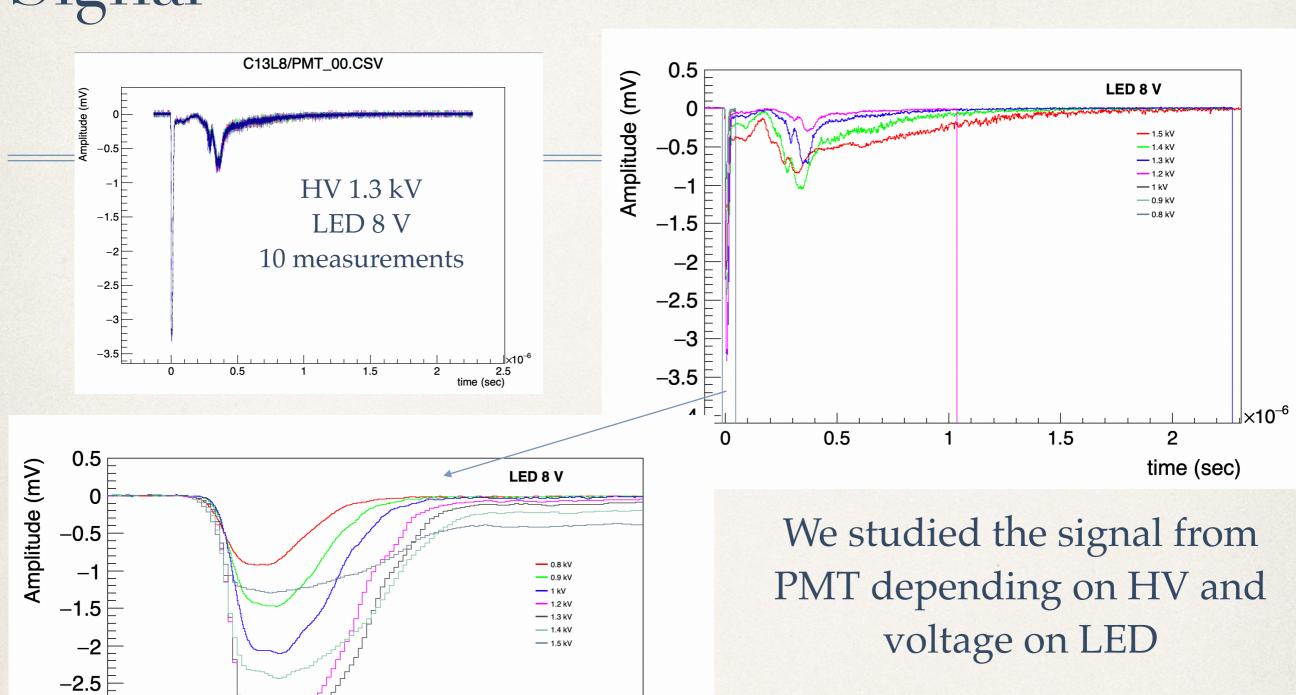
0

30

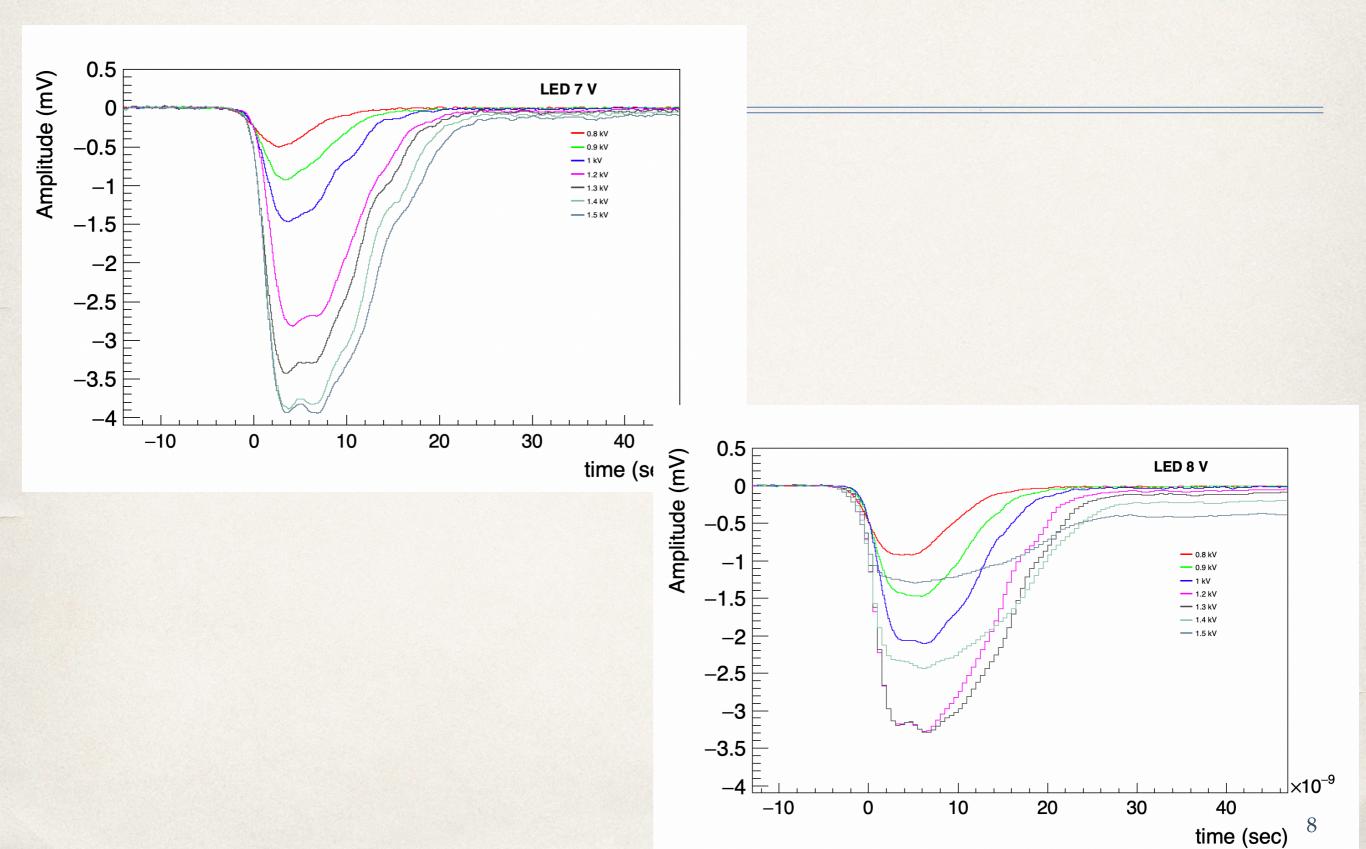
40

time (sec)

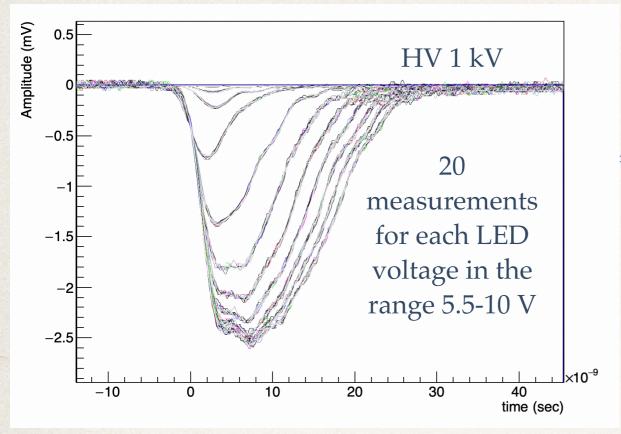
-3.5

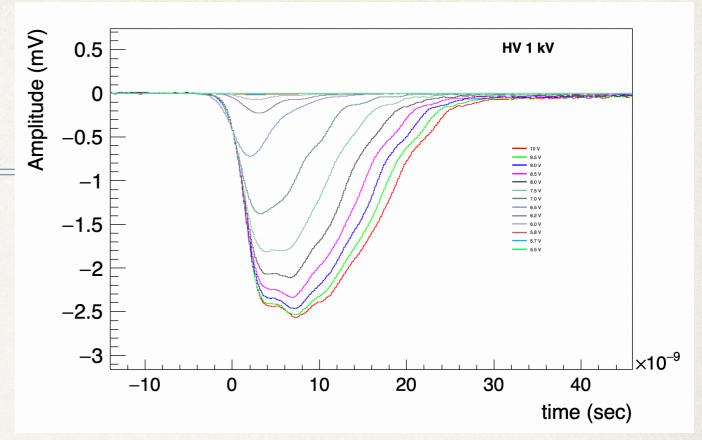


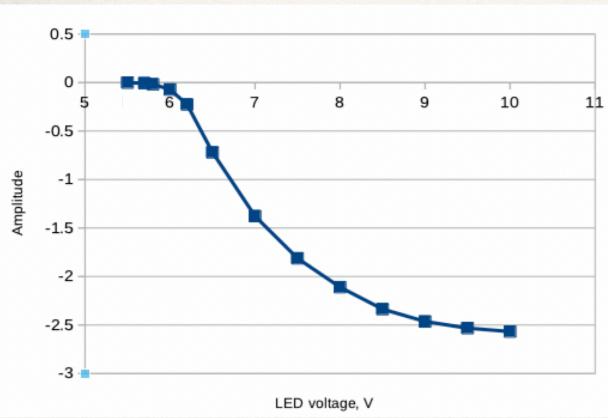
Signal depending on HV, LED voltage 7, 8 V

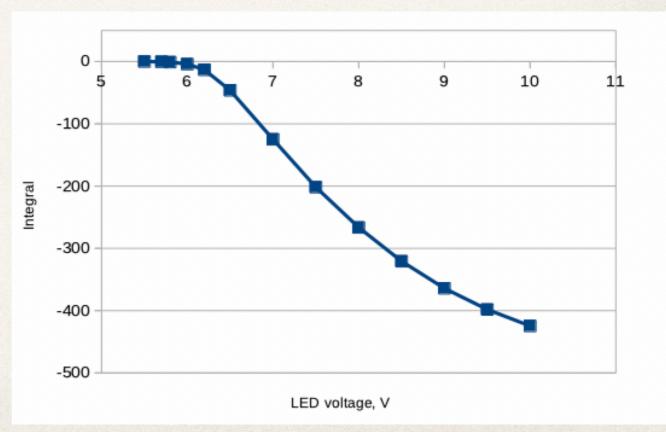


Signal dependance on LED voltage



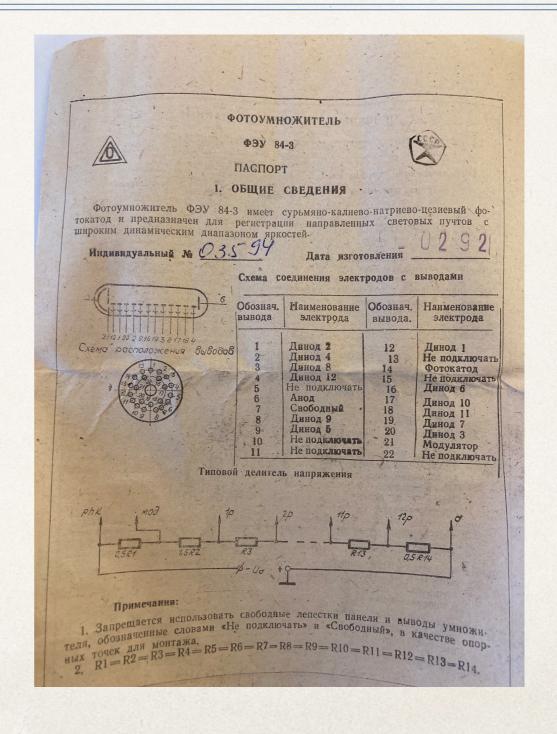






New PMT





Outlook

- Available PMT and voltage divider are in working state
- Would be good to test it with dedicated Hamamatsu divider
- Now the measurements could be performed with the crystal, after we'll
 3D-print the supporting holders for it.
- New PMT has arrived. Divider for the new PMT should be produced.