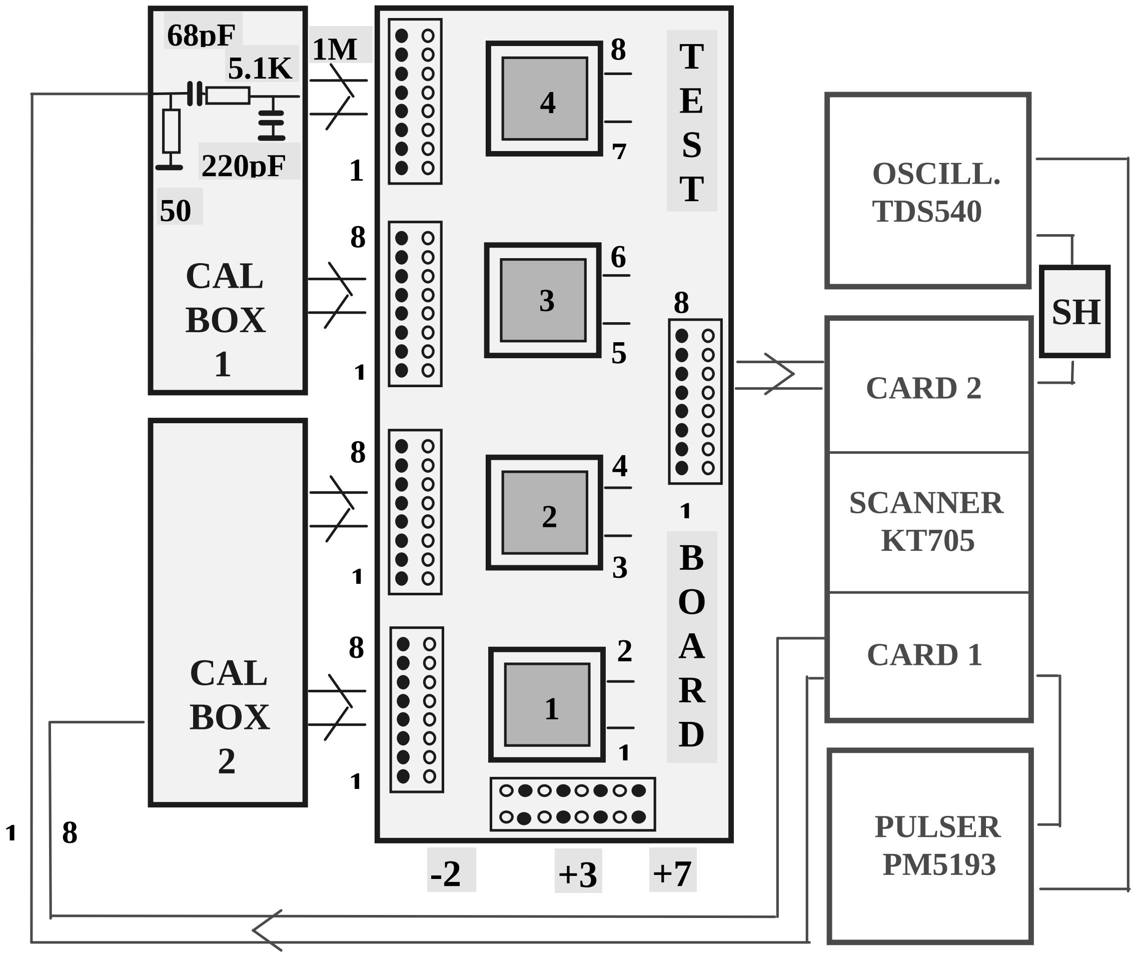
Setup for chips mass measurements



Two types of measurements:

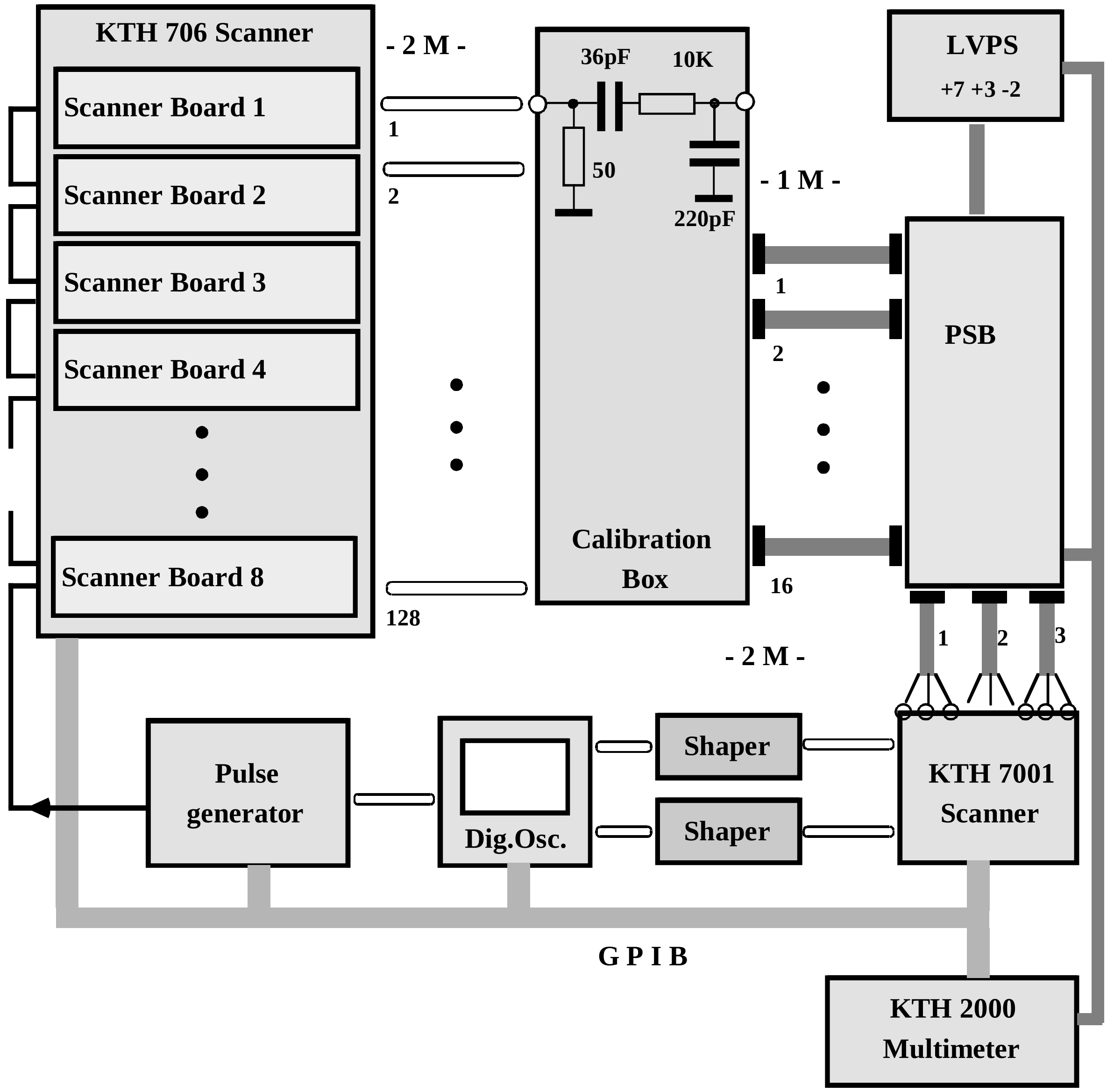
- all 8 preamplifiers are connected to 1 driver
- 4 preamplifiers are connected to driver

11.05.99

GaAs Wafers

prod run	waf #	**bat**	del week	del quant	chip nn reserved	chip nn assigned	**Meas 4PA→DR**	**Meas 8PA→DR**
Sept. 1998	353	0	--98	10	01001-01600	1001-1010	-	-
Aug. 1998	073	3		???	01601-02200		-	-
	074	1	4998	402	02201-02800	02201-02602	+	+
Sept. 1998	583	1	4998	424	02801-03400	02801-03224	-	+
	589	1	4998	411	03401-04000	03401-03811	-	+
	590	1	4998	361	04001-04600	04001-04361	-	+
	591	1	4998	400	04601-05200	04601-05000	+	+
	592	1	4998	384	05201-05800	05201-05584	-	+
Dec. 1998	593	2	5098	306	05801-06400	05801-06106	-	+
	594	2	5098	413	06401-07000	06401-06813	-	+
	595	2	5098	418	07001-07600	07001-07418	-	+
	596	2	5098	446	07601-08200	07601-08046	+	+
	597	2	5098	395	08201-08800	08201-08595	-	+
Dec. 1998	598	3	5198	480	08801-09400	08801-09280	-	+
	599	3	5198	454	09401-10000	09401-09854	-	+
	600	3	5198	395	10001-10600	10001-10395	-	-
	601	3	5198	477	10601-11200	10601-11077	-	-
	602	3	5198	434	11201-11800	11201-11634	-	-
Dec. 1998	603	3			11801-12400	11801-12---	-	-
	604	3			12401-13000	12401-13---	-	-

PSB functional tests



TESTPOINT control program:

- Amplitudes & Peaking time
- Noise
- Linearity
- Xtalk

Measurements can be done both in warm and in LN

Setup has been used for Module-0 PSBs

PSB functional tests

- 25 PSBs (5 of each type) have been produced and tested during 12.04 – 05.05

- Cold tests done:

TYPE	S/N	SIG&N	LIN	XT
A	**03**	+	--	--
	04, 05, 06, 07	+	+	+
B	**03, 04, 05, 06, 07**	+	+	+
C	**03, 04, 05, 06, 07**	+	+	+
D	**02, 05**	+	--	--
	03, 04, 06	+	+	+
E	**02, 03, 04, 05, 06**	+	+	+

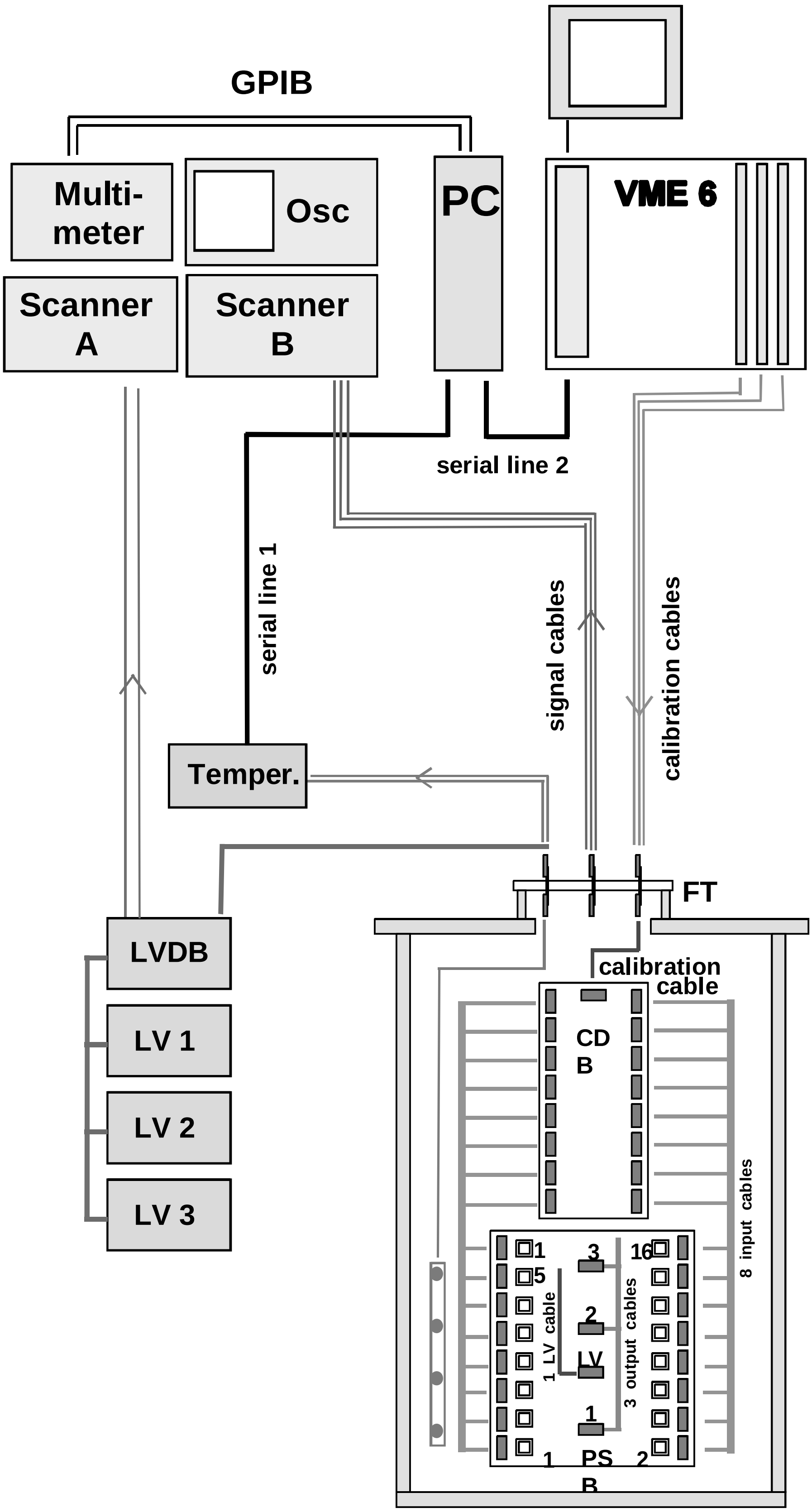
- Bad drivers found and chips changed
  D-02 out-11 weak in warm, dead in cold
  D-04 out-06 weak in warm, dead in cold
  D-05 out-14 weak in warm, failed in cold
  A-03 out-24 weak in warm, failed in cold

- PSB E-02, E-03, E-04, D-03, D-04, D-06 loaded to cryostat and measured

- Load-2: A-04, A-05, A-06, C-03, C-04, C-06 now installed and measured in warm

PSB MASS TEST SETUP

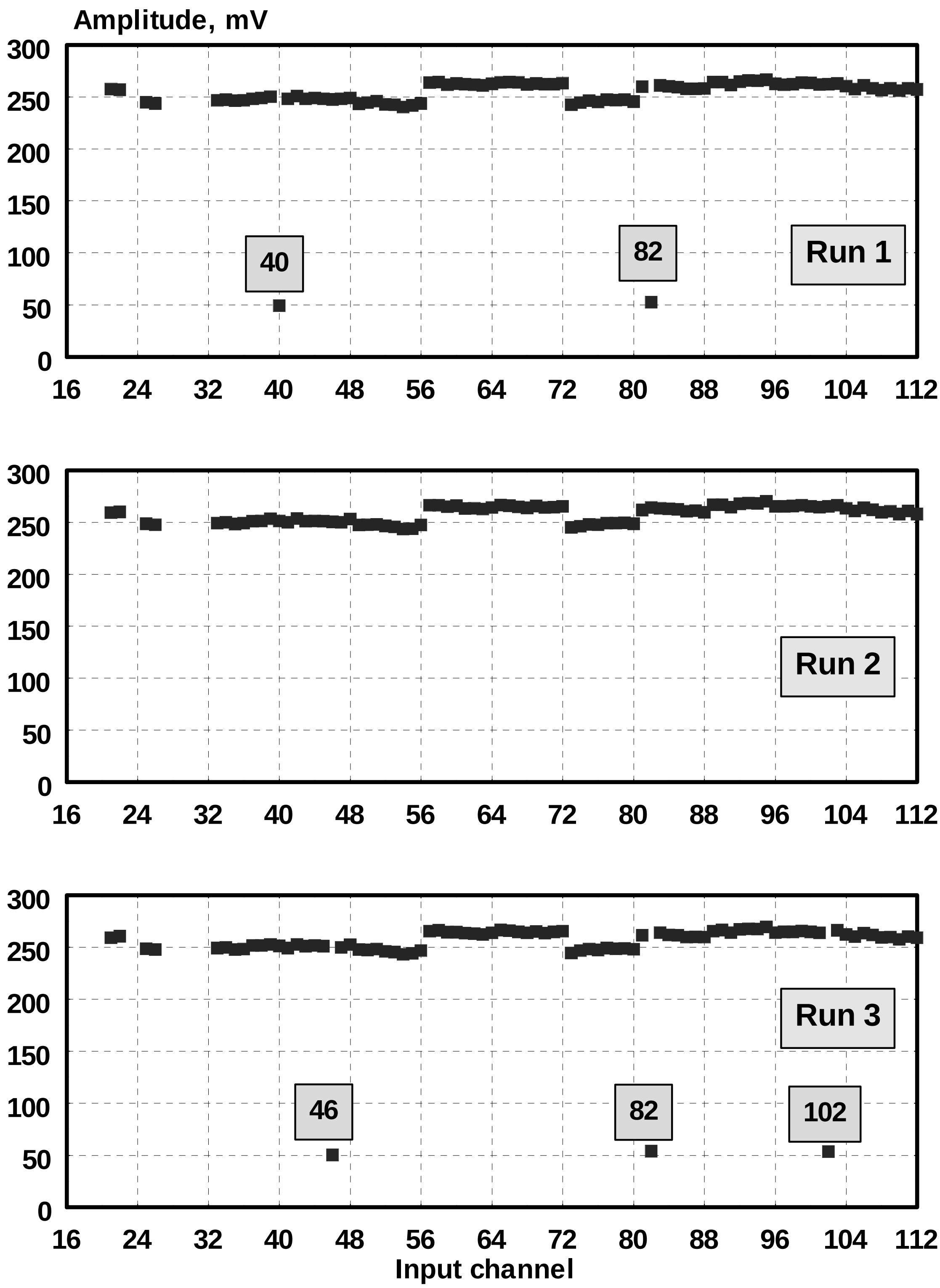
14 Apr 99



Users/Hec/HecElec/HecPSB/Setup/Psbmf.cv5

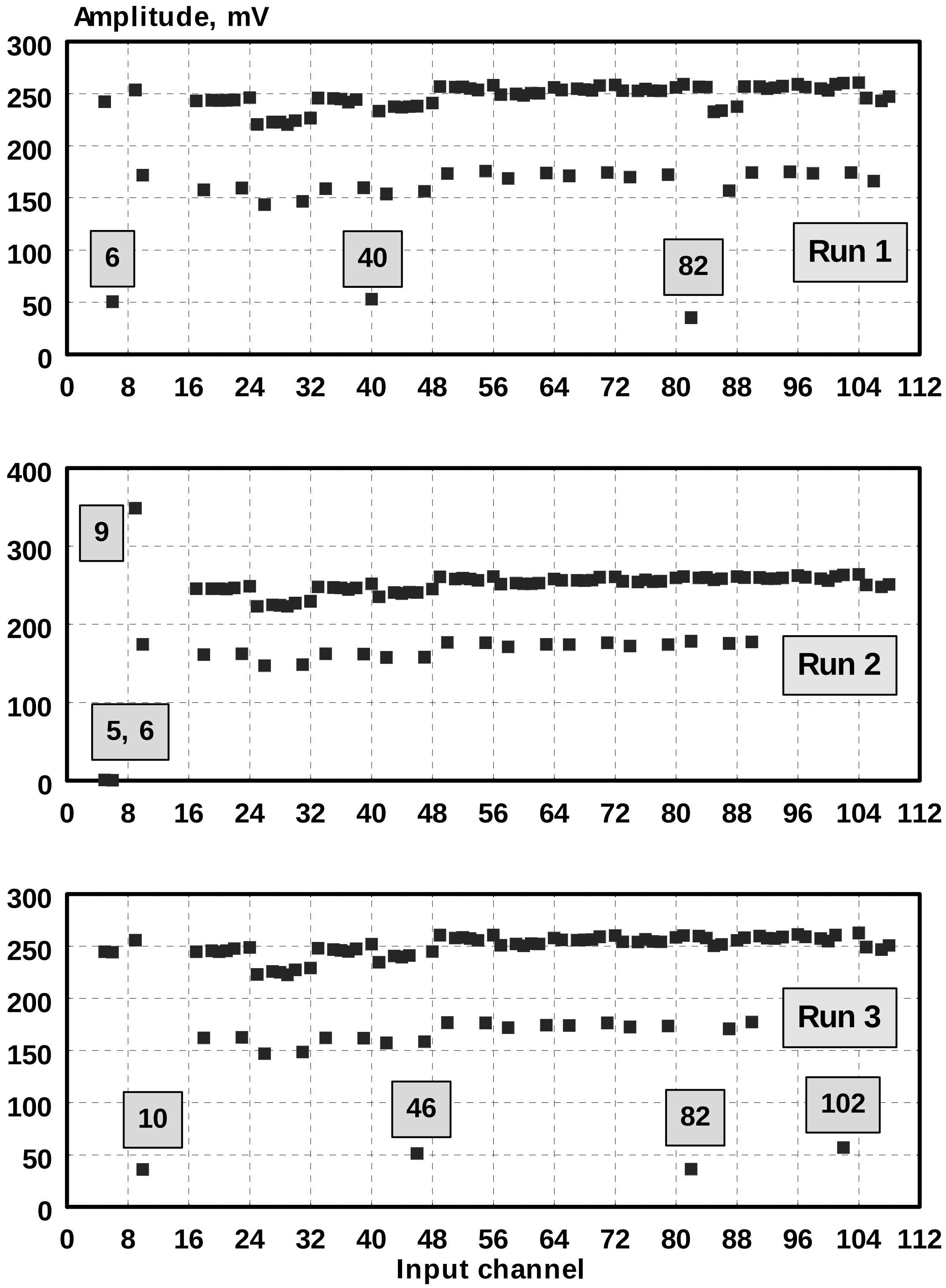
07 May 99

PSB E-02. Cold amplitudes



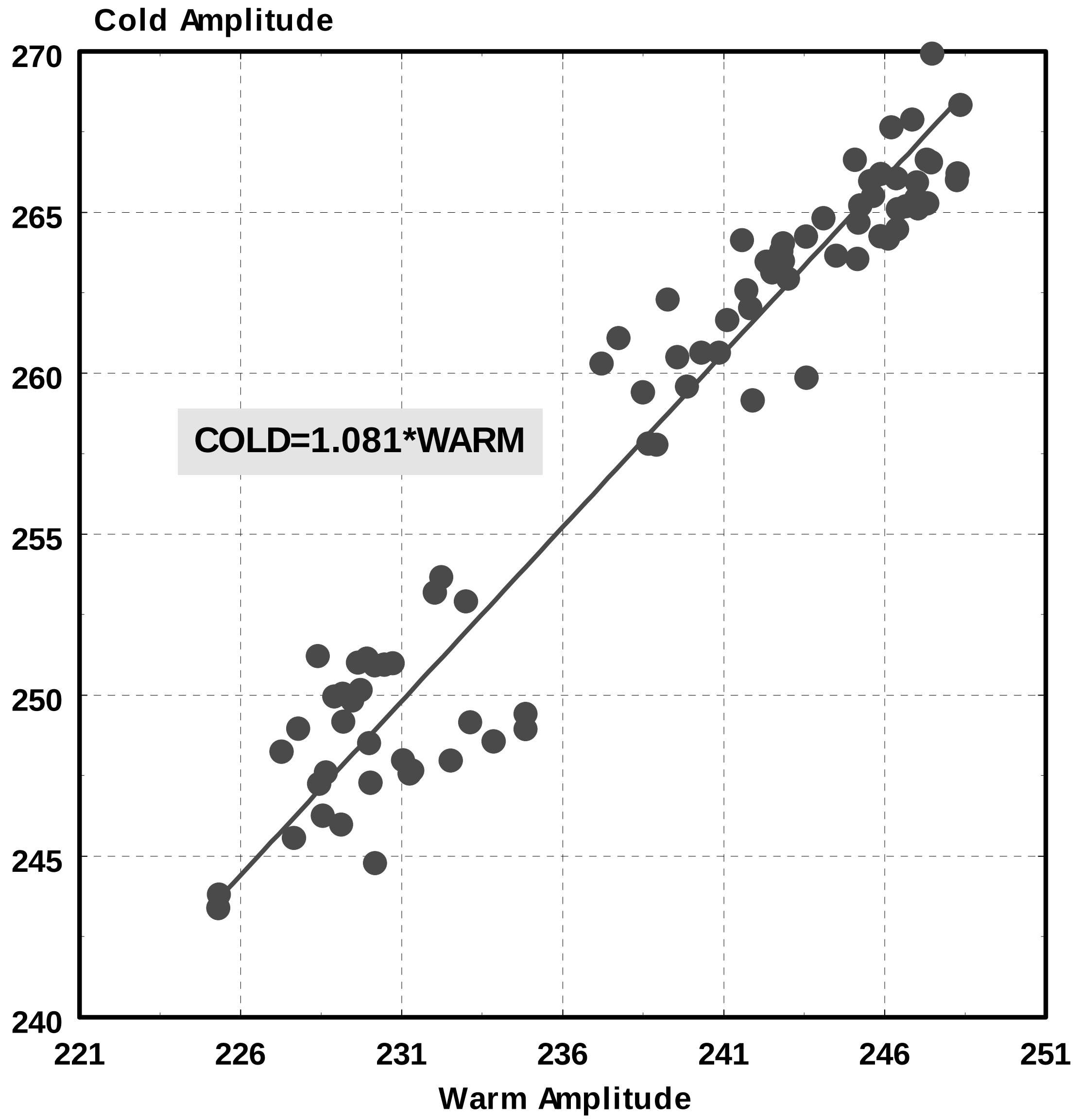
07 May 99

PSB D-04. Cold amplitudes



11 May 99

PSB E-02. Cold vs warm amplitudes



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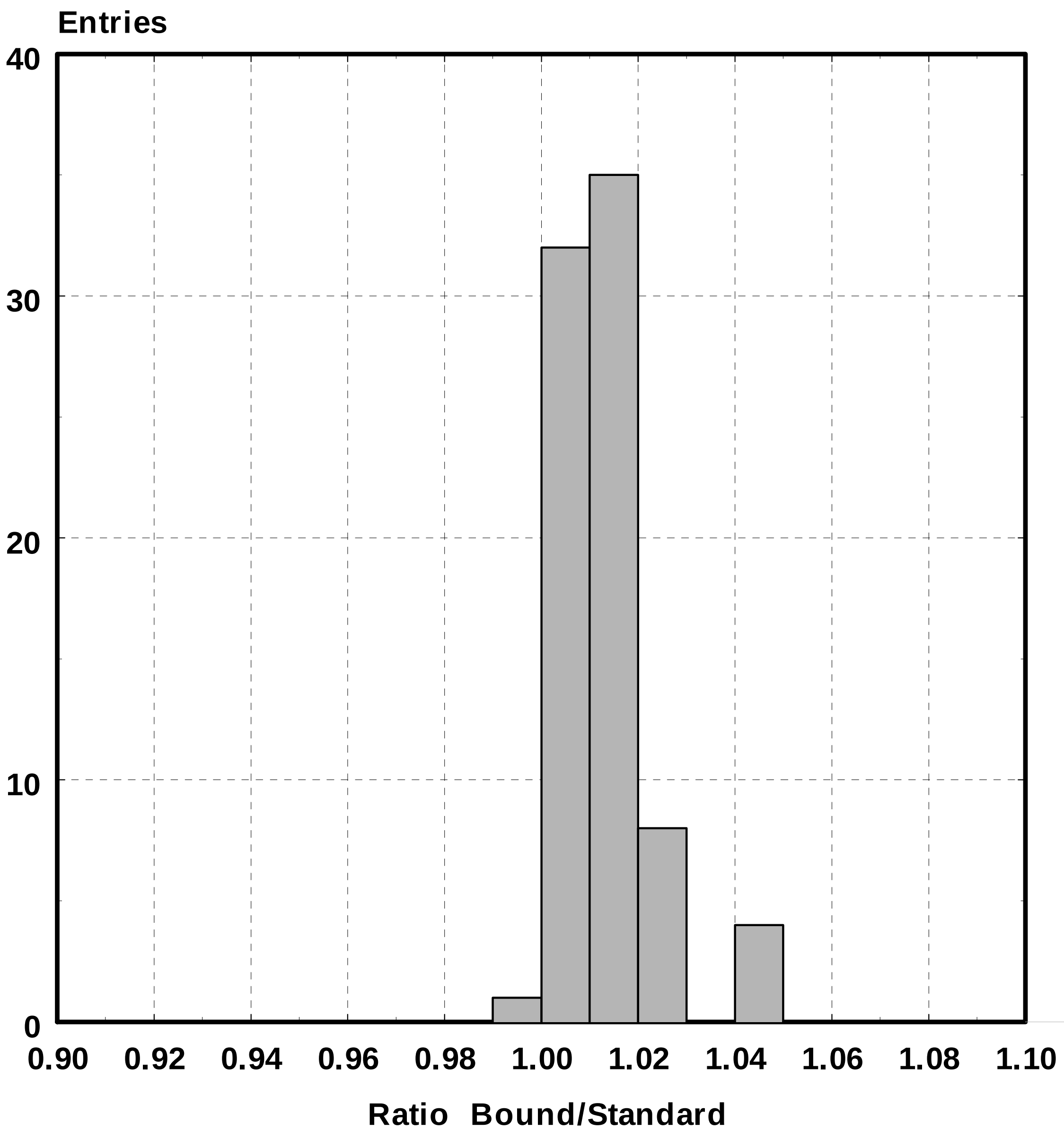
11 May 99

PSB E-02. Amplitudes at boundary Vee



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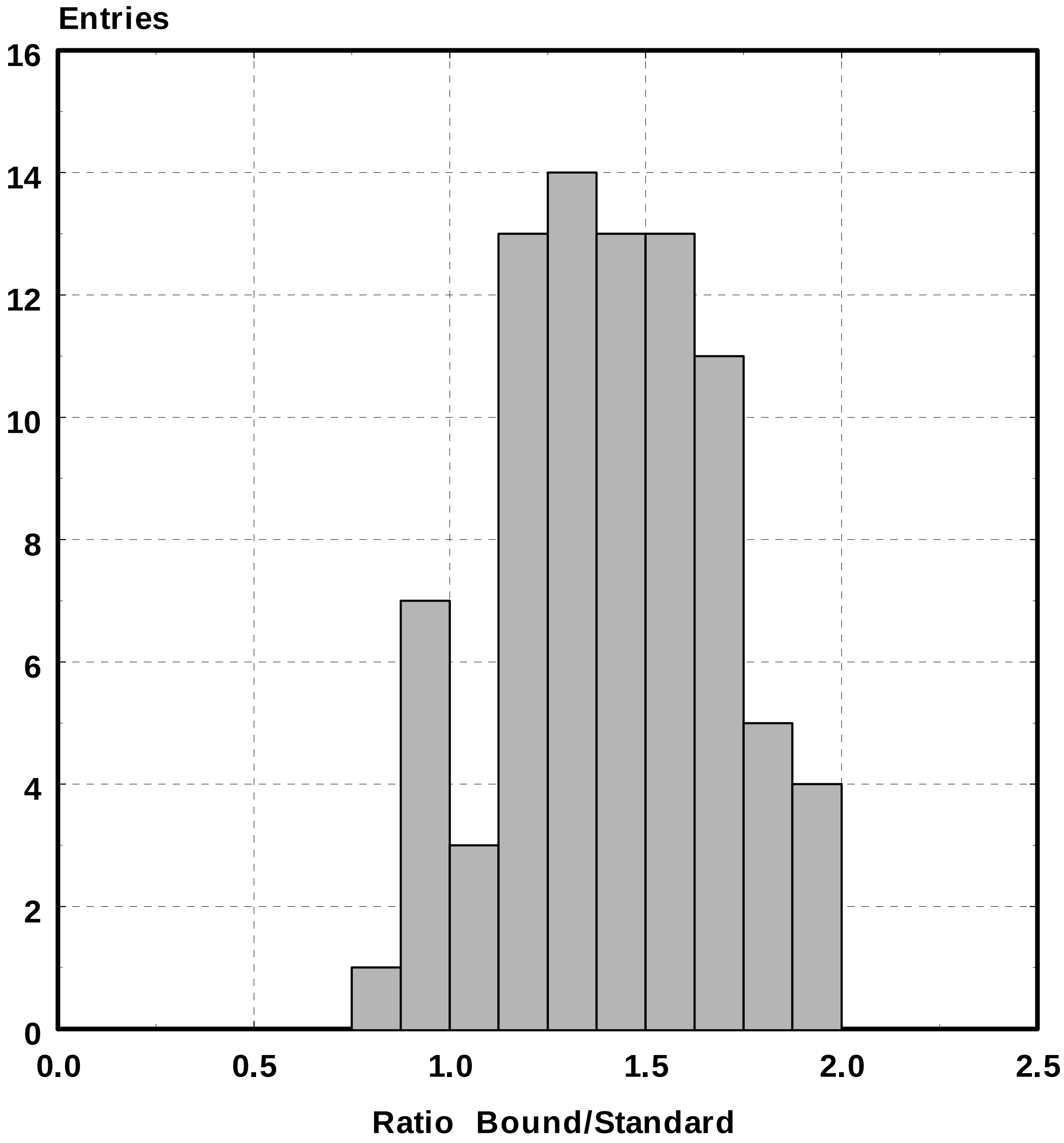
11 May 99

PSB E-02. Noise at boundary Vee



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