

problem => use -b.dat data

Run Nr	SEM number	bos position & Channel	Ratio signal / PIC	
16.5.09				
368	353	040	1	1.4×10^{-15}
367	354	010	2	1.3×10^{-15}
366	355	0184	3	9.3×10^{-16} ✓ problem => ok
365	356	072	4	7.3×10^{-16} ✓ problem(s) take 0072 -b.dat solved
361	357	008	5	7×10^{-16} ✓ beam lost, beam back after 20 min
362	358	0217	6	3.7×10^{-16} ✓ meas. again: 4.6×10^{-16} problem solved
363	359	083	7	5.9×10^{-16} ✓ problem => not solved => see run 422
364	360	015	8	1.4×10^{-15}
360	361	012	9	3.55×10^{-15}
359	362	0198	10	2.7×10^{-15}
358	363	0123	11	2.2×10^{-15}
357	364	0185	12	$10 \times 10^{-15} 5 \times 10^{-14}$ problem ✓ solved 3 times measured, always $10^{-16}, 10^{-16}, 10^{-17}$
353	365	0226	13	3.3×10^{-15}
354	366	0155	14	3.3×10^{-15}
355	367	0225	15	3.1×10^{-15}
356	368	0148	16	1.5×10^{-15}
415	369	316	1	beam problem · 5.2×10^{-15}
414	370	0025	2	8.4×10^{-15}
413	371	97	3	4.9×10^{-15}
412	372	166	4	5.7×10^{-15}
408	373	307	5	6.9×10^{-15}
409	374	127	6	6.9×10^{-15}
410	375	084	7	Overflow 6.1×10^{13} => problem with SEM 084
411	376	106	8	6.3×10^{-15}
407	377	431	9	6.3×10^{-15}
406	378	122	10	7.8×10^{-15}
405	379	004	11	8.2×10^{-15} 204
404	380	214	12	5.6×10^{-15} 214
400	381	058	13	8.5×10^{-15} 058
403	382	213	14	6.9×10^{-15} 213
402	383	120	15	7.6×10^{-15} 120
403	384	197	16	6.8×10^{-15} 197

-b.dats (order in measurements)
~~0072, 0000, 0072, 0008, 0217, 0083~~
 0185
 all 'problem' data (i.e. -b.dat) were taken in the end of run

→ problem with SEM 084
 ↳ has air inside
 ↳ will not be used

• - checked with expresso script
 • - - - - - = bad

17.05.2009

Run Nr.	SEM number	Box position & channel	Ratio Signal / PIC	
384	384	64 o 1	5.6×10^{-15}	use blm-0169-b.dat
385	385	169 a 2	7.1×10^{-15}	
386	386	163 a 3	1.8×10^{-15}	
387	387	171 o 4	1.5×10^{-15}	
391	388	63 ob 5	2.0×10^{-15}	(16) problem → repeated later → see run 421
390	389	81 ob 6	1.3×10^{-15}	beam lost @ 9:40, back @ 9:42, use blm-0081-b.dat
389	390	154 o 7	1.5×10^{-15}	
388	391	17 ob 8	2.7×10^{-15}	use blm-0017-b.dat
392	392	211 o 9	2.7×10^{-15}	
393	393	115 o 10	2.8×10^{-15}	
394	394	54 o 11	2.6×10^{-15}	
395	395	19 o 12	1.5×10^{-15}	
399	396	153 o 13	5.4×10^{-15}	
398	397	20 o 14	5.1×10^{-15}	
397	398	9 o 15	3.8×10^{-15}	
396	399	129 o 16	1.8×10^{-15}	
416	400	91 o 1	$6.6 \cdot 10^{-15}$	
417	401	220 o 2	$6.0 \cdot 10^{-15}$	
418	402	137 o 3	$5.2 \cdot 10^{-15}$	
419	403	221 o 4	$4.3 \cdot 10^{-15}$	
429	404	146 v 5	$7.9 \cdot 10^{-15}$	
422	405	83 ob 6	$3.4 \cdot 10^{-15}$	repetition blm- 1000 083 ^{-b} .dat
421	406	63 ob 7	$7.2 \cdot 10^{-15}$	repetition blm- 1000 063 ^{-b} .dat
420	407	82 o 8	$4.3 \cdot 10^{-15}$	first file wrong
424	408	71 ob 9	$5.8 \cdot 10^{-15}$	first file wrong (reading 1%)
425	409	124 o 10	5.8×10^{-15}	
426	410	74 o 11	4.7×10^{-15}	
427	411	140 o 12	$5.9 \cdot 10^{-15}$	
431	412	97 ob 13	8.7×10^{-15}	
430	413	52 o 14	7.9×10^{-15}	
429	414	42 o 15	$7.7 \cdot 10^{-15}$	
428	415	266 o 16	$5.8 \cdot 10^{-15}$	

o-checked with expresso script

Run Nr. SEM Nr. Box position & channel Ratio Signal / PIC 17.05.2009

447	365	1	
446	361	2	
445	360	3	<i>second batch IITP</i>
444	363	4	
440	376	5	<i>monitor of no signal</i>
441	367	6	
442	96	7	<i>shrink tube</i>
443	372	8	
439	381	9	
438	369	10	
437	370	11	
436	364	12	<i>neg signal</i>
432	374	13	<i>leak current v high? no sig</i>
433	192	14	<i>overflow</i>
434	333	15	<i>overflow 4uC/spill $7.2 \cdot 10^{-13}$</i>
435	366	16	<i>small signal !!</i>

~~165~~ ↑ problem with new SEMs, pulling old in pos 1,2,3

165	1	$4.5 \cdot 10^{-15}$	~ok
168	2	$5.8 \cdot 10^{-15}$	~ok
94	3	$5.8 \cdot 10^{-15}$	~ok
363	4	$9.8 \cdot 10^{-15}$	~ok

326	5		
367	6	<i>not measured</i>	
96	7		
372	8	<i>second batch IITP</i>	
381	9		
369	10		
370	11		
364	12		
374	13		
192	14		
(1)333	15	1, no beam	
(1)366	16	10x standard signal $8 \cdot 10^{-14}$	