

## Pair Spectrometer Scintillator Tiles Distribution

### PS Spectrometer Arm-A (left from beam line)

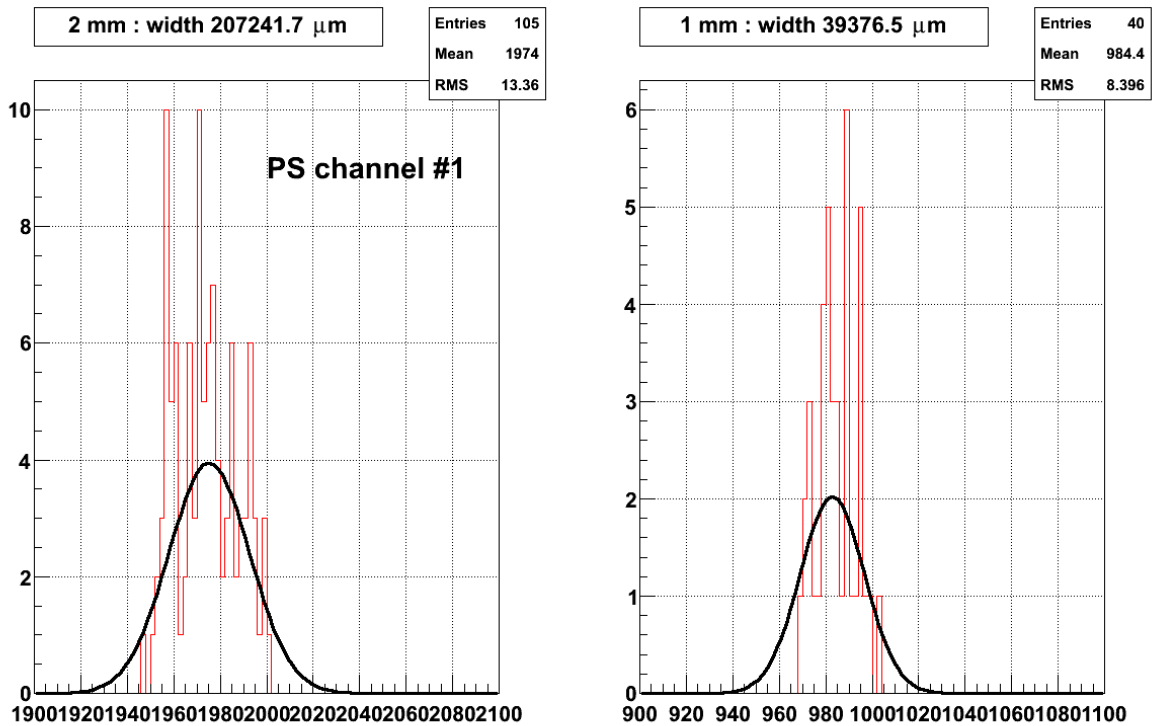


Figure 1. The distribution of the average width for Arm-A (channel 1). The 2 mm tiles is on the left, one mm tiles is on the right figure.

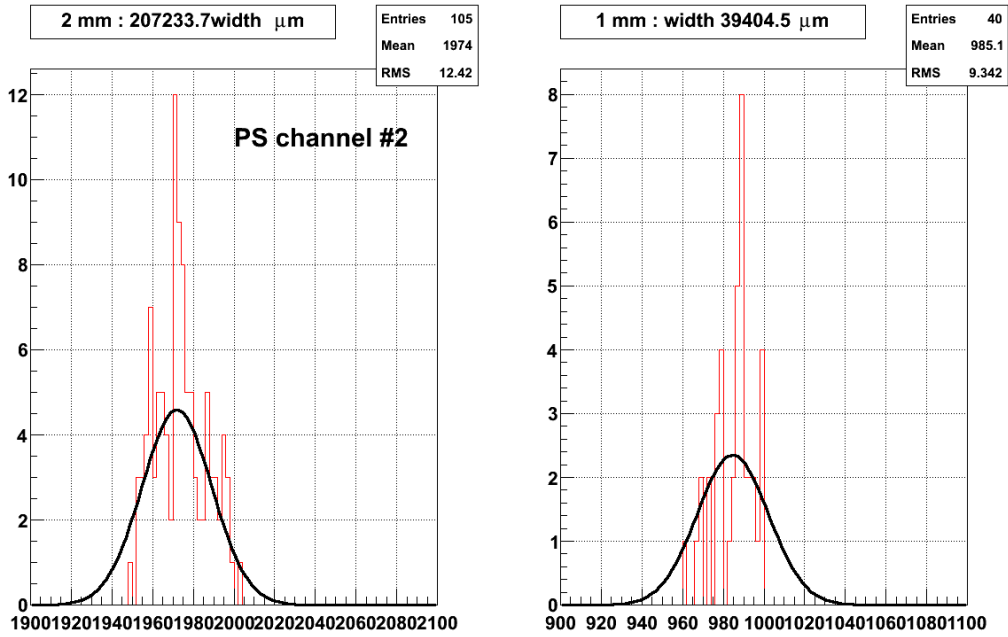
2 mm scintillators				
position	Tile #	Label position	Average width	Max - min
1	111	X	2001.3	5
2	12		1947.0	0
3	221	X	1998.7	1
4	64		1951.3	2
5	83	X	1998.7	8
shim				
6	46		1952.7	8
7	121	X	1998.0	2
8	95		1953.7	1
9	213	X	1997.3	9
10	119		1954.7	1
11	36	X	1995.7	7
12	91		1955.3	3
shim				
13	50	X	1995.0	2
14	41		1955.7	1
15	29	X	1994.3	3
16	58		1956.0	3
17	171	X	1993.3	6
18	59		1956.0	2
19	54	X	1993.3	2

shim					
20	102		X	1956.0	3
21	22	X		1993.3	2
22	1		X	1956.3	5
23	45	X		1992.3	9
24	2		X	1956.7	2
25	38	X		1992.3	7
26	60		X	1956.7	2
shim					
27	56	X		1992.0	2
28	47		X	1957.0	3
29	37	X		1991.3	2
30	61		X	1957.3	1
31	55	X		1991.0	3
32	10		X	1957.7	1
33	63	X		1990.0	2
shim					
34	25		X	1957.7	2
35	90	X		1989.7	14
36	5		X	1958.0	2
37	32	X		1989.7	4
38	74		X	1958.0	0
39	44	X		1961.7	11
40	78		X	1988.7	4
shim					
41	21	X		1987.0	2
42	71		X	1959.3	9
43	13	X		1987.0	3
44	84		X	1959.3	8
45	69	X		1985.7	4
46	43		X	1960.7	1
47	28	X		1985.3	6
shim					
48	67		X	1960.7	1
49	15	X		1985.3	3
50	142		X	1960.7	4
51	9	X		1984.7	2
52	27		X	1961.7	1
53	93	X		1984.3	14
54	62		X	1959.3	1
shim					
55	26	X		1984.3	3
56	105		X	1961.7	2
57	108	X		1983.7	2
58	75		X	1962.0	2
59	65	X		1950.0	5
60	48		X	1964.3	1
61	101	X		1982.7	3
shim					
62	23		X	1965.3	3
63	51	X		1981.0	6

64	98		X	1966.0	6
65	70	X		1980.3	4
66	82		X	1966.3	12
67	57	X		1979.3	4
68	88		X	1967.0	4
shim					
69	24	X		1979.0	8
70	106		X	1967.0	0
71	94	X		1978.3	1
72	35		X	1967.3	1
73	14	X		1978.0	2
74	189		X	1967.7	4
75	104	X		1977.7	2
shim					
76	52		X	1968.0	2
77	87	X		1977.7	4
78	4		X	1968.3	6
79	103	X		1977.3	5
80	6		X	1968.7	13
81	107	X		1976.7	7
82	53		X	1970.0	5
shim					
83	77	X		1976.7	1
84	99		X	1970.3	1
85	31	X		1976.7	1
86	97		X	1971.3	12
87	17	X		1976.7	1
88	16		X	1971.0	4
89	158	X		1975.3	6
shim					
90	34		X	1971.0	7
91	92	X		1974.7	1
92	68		X	1971.0	3
93	76	X		1974.7	2
94	86		X	1971.3	13
95	18	X		1974.7	2
96	96		X	1970.7	8
shim					
97	11	X		1974.3	2
98	66		X	1971.7	2
99	7	X		1974.0	5
100	100		X	1971.7	3
101	72	X		1973.7	2
102	19		X	1972.0	0
103	81	X		1972.7	10
shim					
104	80		X	1972.0	5
105	79	X		1972.7	4

1 mm width scintillators					
106	70		X	1002.5	10
107	74	X		968.5	3
108	4		X	983.0	-13
109	29	X		970.5	-1
110	102	X		998.0	-2
111	16		X	988.8	33.5
112	26	X		988.8	33.5
113	63	X		980.8	-48.5
114	46	X		989.8	20.5
115	52	X		981.5	33
shim					
116	101		X	989.5	-14
117	33	X		978.3	-30.5
118	95		X	991.0	-17
119	20	X		988.0	22
120	69		X	981.5	28
121	80	X		971.5	-20
122	27	X		996.5	1
123	35	X		973.8	18.5
124	8		X	992.4	23
125	98		X	995.5	-5
126	45		X	973.0	19
127	99		X	994.5	-13
128	39		X	988.5	0
129	24		X	994.5	17
130	50	X		973.0	17
shim					
131	19		X	994.5	17
132	40		X	978.5	-17
133	96	X		982.0	2
134	100		X	993.0	13
135	67	X		974.0	10
136	37		X	976.8	-1.5
137	43	X		986.0	3
138	79		X	978.0	3
139	10		X	979.3	1.5
140	104		X	985.0	-14
141	36		X	980.3	34.5
142	90	X		985.0	17
143	11	X		982.3	19.5
144	62	X		985.0	-4
145	89		X	980.5	5

## PS Spectrometer Arm-B (right from beam line)



**Figure 2.** The distribution of the average width for channel #2. The 2 mm tiles is on the left, one mm tiles is on the right figure.

position	2 mm scintillators			
	Tile #	Label position	Average width	Max - min
1	206	X	2002.0	3
2	8	X	1949.0	3
3	193	X	1998.0	9
4	33	X	1952.3	1
5	190	X	1997.7	2
shim				
6	168	X	1953.3	1
7	129	X	1997.7	1
8	40	X	1953.7	2
9	182	X	1996.3	10
10	30	X	1954.0	2
11	198	X	1995.3	3
12	226	X	1978.0	1
shim				
13	209	X	1995.0	3
14	3	X	1955.7	1
15	177	X	1994.7	7
16	199	X	1956.0	2
17	20	X	1994.7	1
18	135	X	1956.3	1
19	170	X	1992.7	14
shim				
20	143	X	1957.7	2
21	175	X	1989.0	4
22	214	X	1957.7	3
23	181	X	1991.3	3
24	136	X	1958.3	2
25	169	X	1990.7	5

26	127		X	1959.3	1
shim					
27	184	X		1990.3	10
28	166		X	1958.3	3
29	126	X		1989.7	1
30	212		X	1958.7	4
31	160	X		1992.7	10
32	113		X	1959.0	0
33	133	X		1988.7	6
shim					
34	161		X	1958.3	10
35	153	X		1987.7	4
36	210		X	1959.7	1
37	201	X		1987.3	5
38	165		X	1960.7	1
39	145	X		1987.3	1
40	200		X	1961.3	2
shim					
41	157	X		1986.3	2
42	134		X	1961.7	3
43	73	X		1986.0	3
44	195		X	1962.0	8
45	186	X		1985.3	15
46	149		X	1963.0	3
47	144	X		1985.0	11
shim					
48	150		X	1963.0	9
49	167	X		1983.0	4
50	115		X	1963.3	4
51	131	X		1982.3	12
52	109		X	1963.7	4
53	185	X		1981.0	3
54	211		X	1964.0	4
shim					
55	208	X		1980.7	5
56	203		X	1964.3	1
57	118	X		1980.3	2
58	164		X	1965.0	5
59	192	X		1979.3	13
60	172		X	1966.7	4
61	137	X		1979.3	3
shim					
62	42		X	1965.0	5
63	187	X		1979.0	4
64	207		X	1966.3	5
65	173	X		1978.3	3
66	205		X	1965.0	10
67	159	X		1978.3	4
68	124		X	1967.3	5
shim					
69	191	X		1977.3	4
70	132		X	1967.3	4
71	188	X		1977.0	2
72	146		X	1969.0	8

73	180	X		1976.7	5
74	114		X	1969.7	7
75	178	X		1976.7	2
shim					
76	123		X	1970.3	2
77	138	X		1976.0	3
78	141		X	1970.3	3
79	130	X		1975.7	2
80	197		X	1970.3	5
81	116	X		1975.7	1
82	196		X	1970.7	1
shim					
83	183	X		1975.0	7
84	110		X	1971.0	9
85	147	X		1975.0	4
86	174		X	1971.0	0
87	219	X		1975.0	6
88	176		X	1971.0	0
89	128	X		1974.7	1
shim					
90	152		X	1971.3	1
91	140	X		1974.3	10
92	154		X	1971.3	1
93	122	X		1974.0	5
94	155		X	1971.3	2
95	148	X		1973.7	3
96	163		X	1971.3	1
shim					
97	202	X		1973.3	4
98	204		X	1971.7	1
99	162	X		1973.0	3
100	156		X	1972.0	3
101	125	X		1973.0	9
102	120		X	1972.3	2
103	179	X		1972.7	3
shim					
104	194		X	1972.3	1
105	151	X		1972.7	2

1 mm width scintillators					
106	83		X	992.0	-22
107	54	X		973.8	-22.5
108	31		X	999.3	8.5
109	56	X		960.8	14.5
110	64		X	998.5	23
111	53	X		967.0	10
112	42	X		995.0	17
113	15	X		996.5	6
114	92		X	985.3	-22.5
115	76		X	986.5	17
shim					
116	85		X	987.0	24
117	93		X	982.5	-22
118	72	X		968.5	-12
119	7	X		999.0	9
120	68		X	968.8	-2.5
121	41		X	997.5	5
122	97		X	998.3	-12.5
123	34		X	973.8	4.5
124	58		X	995.5	13
125	30		X	992.5	2
126	59		X	998.5	9.5
127	94	X		989.3	10.5
128	17		X	976.0	7
129	81		X	987.3	-14.5
130	77	X		976.0	-9
shim					
131	78	X		990.3	4.5
132	49		X	978.8	-6.5
133	66		X	989.3	13.5
134	55		X	992.5	0
135	82		X	978.8	-16.5
136	73	X		988.8	-7.5
137	88	X		979.3	4.5
138	71		X	988.8	-2.5
139	60		X	988.5	1
140	87		X	979.5	4
141	47		X	988.5	9
142	103	X		988.0	-6
143	23		X	986.8	0.5
144	84		X	986.0	-7
145	86		X	985.3	-12.5