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1 lyra_cal_20090909.txt          LYRA Calibration Table (Version 01) 09 Sep 2009
2
3 20.                            default temperature / deg C
4 11                             number of sampling points for estimating dark currents
5 -40.,-30.,-20.,-10.,0.,10.,20.,30.,40.,50.,60.
6 6.290,6.440,6.460,6.800,6.800,6.870,6.980,7.500,14.000,44.600,216.300    interpol param (input)  temper. / deg C
7 6.521,6.543,6.519,6.559,6.571,6.583,6.595,6.606, 6.609, 6.623, 6.673    interpol param (output) 1-1 d.c. / kHz
8 6.385,6.417,6.440,6.501,6.514,6.535,6.561,6.655, 7.163, 9.910, 24.476    interpol param (output) 1-2 d.c. / kHz
9 6.535,6.563,6.585,6.639,6.662,6.707,6.780,6.910, 7.440, 8.770, 12.960    interpol param (output) 1-3 d.c. / kHz
10 6.840,6.670,6.800,6.970,6.740,6.660,6.600,7.420,12.370,39.000,191.600   interpol param (output) 1-4 d.c. / kHz
11 6.251,6.293,6.289,6.327,6.354,6.365,6.378,6.390, 6.380, 6.390, 6.390    interpol param (output) 2-1 d.c. / kHz
12 6.178,6.212,6.230,6.251,6.258,6.270,6.290,6.330, 6.790, 8.980, 21.310   interpol param (output) 2-2 d.c. / kHz
13 6.170,6.100,6.260,6.380,6.510,6.630,6.730,7.122,11.560,34.480,169.450  interpol param (output) 2-3 d.c. / kHz
14 7.480,7.630,7.710,7.180,7.520,7.780,8.570,10.70,20.600,47.100,137.200  interpol param (output) 2-4 d.c. / kHz
15 6.432,6.463,6.494,6.330,6.511,6.521,6.532,6.544, 6.540, 6.470, 6.554   interpol param (output) 3-1 d.c. / kHz
16 6.373,6.391,6.393,6.348,6.470,6.490,6.480,6.410, 6.040, 4.980, 2.130   interpol param (output) 3-2 d.c. / kHz
17 6.410,6.426,6.443,6.294,6.500,6.510,6.470,6.300, 5.480, 3.030, 0.000   interpol param (output) 3-3 d.c. / kHz
18 1.                             degradation correction factor channel 1-1
19 1.                             degradation correction factor channel 1-2
20 1.                             degradation correction factor channel 1-3
21 1.                             degradation correction factor channel 1-4
22 1.                             degradation correction factor channel 2-1
23 1.                             degradation correction factor channel 2-2
24 1.                             degradation correction factor channel 2-3
25 1.                             degradation correction factor channel 2-4
26 1.                             degradation correction factor channel 3-1
27 1.                             degradation correction factor channel 3-2
28 1.                             degradation correction factor channel 3-3
29 1.                             degradation correction factor channel 3-4
30 0.,0.                          default pointing from solar center (X,Y) / arcsec
31 7,7                             number of sampling points (matrix) for estimating off-pointing correction factors
32 -1.00,-0.67,-0.33,0.00,0.33,0.67,1.00    interpol param (input) X coord / arcsec
33 -1.00,-0.67,-0.33,0.00,0.33,0.67,1.00    interpol param (input) Y coord / arcsec
34 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 1-1
35 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 1-1
36 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 1-1
37 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 1-1
38 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 1-1
39 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 1-1
40 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 1-1
41 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 1-2
42 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 1-2
43 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 1-2
44 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 1-2
45 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 1-2
46 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 1-2
47 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 1-2
48 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 1-3
49 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 1-3
50 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 1-3
51 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 1-3
52 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 1-3
53 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 1-3
54 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 1-3
55 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 1-4
56 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 1-4
57 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 1-4
58 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 1-4
59 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 1-4
60 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 1-4
61 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 1-4
62 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 2-1
63 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 2-1
64 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 2-1
65 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 2-1
66 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 2-1
67 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 2-1
68 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 2-1
69 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 2-2
70 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 2-2
71 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 2-2
72 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 2-2
73 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 2-2
74 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 2-2
75 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 2-2
76 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 2-3
77 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 2-3
78 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 2-3
79 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 2-3
80 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 2-3
81 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 2-3
82 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 2-3
83 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 2-4
84 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 2-4
85 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 2-4
86 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 2-4
87 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 2-4
88 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 2-4
89 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 2-4
90 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 3-1
91 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 3-1
92 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 3-1
93 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y= 0.00 (output) 3-1
94 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.33 (output) 3-1
95 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+0.67 (output) 3-1
96 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=+1.00 (output) 3-1
97 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-1.00 (output) 3-2
98 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.67 (output) 3-2
99 1.,1.,1.,1.,1.,1.,1.,1.             interpol X-vector for Y=-0.33 (output) 3-2

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100	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y= 0.00 (output)	3-2
101	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.33 (output)	3-2
102	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.67 (output)	3-2
103	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+1.00 (output)	3-2
104	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-1.00 (output)	3-3
105	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-0.67 (output)	3-3
106	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-0.33 (output)	3-3
107	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y= 0.00 (output)	3-3
108	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.33 (output)	3-3
109	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.67 (output)	3-3
110	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+1.00 (output)	3-3
111	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-1.00 (output)	3-4
112	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-0.67 (output)	3-4
113	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=-0.33 (output)	3-4
114	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y= 0.00 (output)	3-4
115	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.33 (output)	3-4
116	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+0.67 (output)	3-4
117	1.,1.,1.,1.,1.,1.,1.	interpol X-vector for Y=+1.00 (output)	3-4
118	149597870.	default distance from Sun / km	
119	11	number of sampling points for estimating VFC_r1 parameters	
120	-40.,-30.,-20.,-10.,0.,10.,20.,30.,40.,50.,60.		
121	0.00415550,0.00415444,0.00415424,0.00415343,0.00415265,0.00415215,	interpol param (input)	temper. / deg C
122	0.00415176,0.00415152,0.00415098,0.00415033,0.00415147	interpol param (output)	*-1 VFC
123	0.00414900,0.00414808,0.00414764,0.00414752,0.00414710,0.00414696,	interpol param (output)	*-2 VFC
124	0.00414697,0.00414696,0.00414677,0.00414653,0.00414635		(*-2 contd.)
125	0.00415459,0.00415364,0.00415277,0.00415216,0.00415140,0.00415088,	interpol param (output)	*-3 VFC
126	0.00415045,0.00415025,0.00414975,0.00414923,0.00414870		(*-3 contd.)
127	0.00415352,0.00415272,0.00415211,0.00415189,0.00415135,0.00415109,	interpol param (output)	*-4 VFC
128	0.00415104,0.00415083,0.00415056,0.00415010,0.00414983		(*-4 contd.)
129	1.009*10.	resistance channel 1-1 / GigaOhm	
130	0.199	resistance channel 1-2 / GigaOhm	
131	1.003	resistance channel 1-3 / GigaOhm	
132	1.034	resistance channel 1-4 / GigaOhm	
133	1.037*10.	resistance channel 2-1 / GigaOhm	
134	0.1969	resistance channel 2-2 / GigaOhm	
135	1.016	resistance channel 2-3 / GigaOhm	
136	1.030*10.	resistance channel 2-4 / GigaOhm	
137	1.037*10.	resistance channel 3-1 / GigaOhm	
138	0.1978	resistance channel 3-2 / GigaOhm	
139	0.996	resistance channel 3-3 / GigaOhm	
140	0.997	resistance channel 3-4 / GigaOhm	
141	0.283,0.340	lower,upper limit safe interval 1-1 total / nA	
142	0.226,0.397	lower,upper limit ext. interval 1-1 total / nA	
143	0.100,0.119	lower,upper limit safe interval 2-1 total / nA	
144	0.081,0.138	lower,upper limit ext. interval 2-1 total / nA	
145	0.269,0.317	lower,upper limit safe interval 3-1 total / nA	
146	0.221,0.365	lower,upper limit ext. interval 3-1 total / nA	
147	0.0061,0.0093	lower,upper limit safe interval *-1 solar / W m-2	
148	0.0029,0.0125	lower,upper limit ext. interval *-1 solar / W m-2	
149	5	number of sampling points channel *-1	
150	0.283186,0.301267,0.308235,0.327437,0.339965	interpol param (input)	1-1 total / nA
151	0.099602,0.105905,0.108327,0.115003,0.119354	interpol param (input)	2-1 total / nA
152	0.269455,0.281382,0.284792,0.303244,0.317198	interpol param (input)	3-1 total / nA
153	0.00610500,0.00690130,0.00714568,0.00836111,0.00931232	interpol param (output)	*-1 solar / W m-2
154	10.918,11.710	lower,upper limit safe interval 1-2 total / nA	
155	10.126,12.502	lower,upper limit ext. interval 1-2 total / nA	
156	11.690,12.512	lower,upper limit safe interval 2-2 total / nA	
157	10.868,13.334	lower,upper limit ext. interval 2-2 total / nA	
158	9.389,10.055	lower,upper limit safe interval 3-2 total / nA	
159	8.723,10.721	lower,upper limit ext. interval 3-2 total / nA	
160	0.4454,0.4764	lower,upper limit safe interval *-2 solar / W m-2	
161	0.4144,0.5074	lower,upper limit ext. interval *-2 solar / W m-2	
162	4	number of sampling points channel *-2	
163	10.9178,11.3280,11.5311,11.7096	interpol param (input)	1-2 total / nA
164	11.6904,12.1142,12.3278,12.5120	interpol param (input)	2-2 total / nA
165	9.38879,9.73290,9.90543,10.0549	interpol param (input)	3-2 total / nA
166	0.445404,0.461334,0.469345,0.476369	interpol param (output)	*-2 solar / W m-2
167	0.054,2.079	lower,upper limit safe interval 1-3 total / nA	
168	0.027,4.158	lower,upper limit ext. interval 1-3 total / nA	
169	0.049,1.745	lower,upper limit safe interval 2-3 total / nA	
170	0.024,3.490	lower,upper limit ext. interval 2-3 total / nA	
171	0.907,16.701	lower,upper limit safe interval 3-3 total / nA	
172	0.453,33.402	lower,upper limit ext. interval 3-3 total / nA	
173	0.0017,0.0057	lower,upper limit safe interval *-3 solar / W m-2	
174	0.0008,0.0114	lower,upper limit ext. interval *-3 solar / W m-2	
175	7	number of sampling points channel *-3	
176	0.0541294,0.0852873,0.142513,0.184207,0.196302,0.291588,2.07897	interpol param (input)	1-3 total / nA
177	0.0493309,0.0769017,0.124030,0.161834,0.172380,0.249393,1.74479	interpol param (input)	2-3 total / nA
178	0.906568,1.32016,1.83762,2.47889,2.61304,3.30640,16.7010	interpol param (input)	3-3 total / nA
179	0.00171904,0.00225541,0.00263286,0.00362499,0.00376518,0.00394254,0.00570166	interpol param (output)	*-3 solar / W m-2
180	0.085,5.373	lower,upper limit safe interval 1-4 total / nA	
181	0.042,10.746	lower,upper limit ext. interval 1-4 total / nA	
182	0.012,0.787	lower,upper limit safe interval 2-4 total / nA	
183	0.006,1.574	lower,upper limit ext. interval 2-4 total / nA	
184	0.087,5.375	lower,upper limit safe interval 3-4 total / nA	
185	0.043,10.750	lower,upper limit ext. interval 3-4 total / nA	
186	0.0006,0.0034	lower,upper limit safe interval *-4 solar / W m-2	
187	0.0003,0.0068	lower,upper limit ext. interval *-4 solar / W m-2	
188	7	number of sampling points channel *-4	
189	0.085286,0.140574,0.261593,0.311291,0.337455,0.565202,5.37328	interpol param (input)	1-4 total / nA
190	0.0123416,0.0207628,0.0393822,0.0477878,0.0516737,0.0861456,0.786811	interpol param (input)	2-4 total / nA
191	0.0871362,0.142422,0.263439,0.313136,0.339295,0.567046,5.37510	interpol param (input)	3-4 total / nA
192	0.000612958,0.000889638,0.000996023,0.00141076,0.00146242,0.00148986,0.00340528	interpol param (output)	*-3 solar / W m-2