

SMS uScan %R Measurements of the WHT Secondary Mirror, 6 November 2012

Repeated measurements at locations. Many are outside repeatability tolerance 0.5%

This also occurred on INT secondary. May be difficult to hold detector still on convex surface.

1	location 1	1.78E-02	8.18E-04	0.814		353.9	14:57:25	11/06/1912
2		1.77E-02	8.14E-04	0.808	>0.5%	354.4	14:57:30	11/06/1912
3	2	3.50E-03	2.71E-04	0.843		85.8	14:57:41	11/06/1912
4		3.45E-03	2.71E-04	0.841		84.3	14:57:47	11/06/1912
5	3	2.10E-03	1.69E-04	0.851	>0.5%	63.8	14:57:57	11/06/1912
6		2.10E-03	1.71E-04	0.843		63.1	14:58:02	11/06/1912
7		2.09E-03	1.73E-04	0.838		62.6	14:58:08	11/06/1912
8	4	3.21E-03	2.14E-04	0.867	>0.5%	93.8	14:58:49	11/06/1912
9		3.26E-03	2.14E-04	0.85		97.1	14:58:54	11/06/1912
10	5	2.60E-03	3.39E-04	0.841		50.7	14:59:05	11/06/1912
11		2.97E-03	4.79E-04	0.816	>0.5%	50	14:59:11	11/06/1912
12		2.61E-03	4.26E-04	0.856		45.5	14:59:20	11/06/1912
selected average		2.77E-03	2.48E-04	0.842		69.67		

Conclusion: Condition of mirror is generally good and does not warrant re-aluminisation
First measurement is probably a stain. Mirror has several small stains of diverse origins.