

Reflectivity meas. of INT Primary mirror, taken after soap+water wash + air dry on 18 Dec 2013

Measurements from SMS microScan are usually in pairs, to check 0.5% repeatability.

Lambda	0.67 micron		
Incident Angle	25 deg		<--SMS Summary characteristics
BW Limits	1	0.01	

datum #	Scattering at angles Θ, Φ			Reflectivity	user comment	Roughness RMS(Å)	TIME	DATE
	Θ s->	0	50					
1	Ref mirror	3.26E-03	1.68E-03	0.931		39.6	13:04:31	12-18-1913
2		3.27E-03	1.69E-03	0.931		39.7	13:04:38	12-18-1913
3	R2	2.72E-03	1.29E-03	0.928		36.4	13:04:47	12-18-1913
4		2.73E-03	1.30E-03	0.928		36.5	13:04:52	12-18-1913
5	R3	2.92E-03	1.35E-03	0.922		37.9	13:05:05	12-18-1913
6		2.92E-03	1.35E-03	0.921		38	13:05:10	12-18-1913
7	R4	6.54E-03	2.34E-03	0.918		58.1	13:05:18	12-18-1913
8		6.55E-03	2.35E-03	0.919		58.1	13:05:23	12-18-1913
9	R5	2.29E-03	1.24E-03	0.933		33.1	13:05:33	12-18-1913
10		2.29E-03	1.24E-03	0.933		33.1	13:05:38	12-18-1913
11	R6	2.95E-03	1.66E-03	0.921		37.8	13:05:46	12-18-1913
12		2.96E-03	1.66E-03	0.920		37.8	13:05:52	12-18-1913
13	R7	6.01E-03	2.12E-03	0.926	AOK	55.6	13:05:58	12-18-1913

This confirms the instrument is able to detect high %R (historical max. is 94%) and thus is clean.

Measurements on the Primary Mirror:

datum #	Scattering at angles Θ, Φ			Reflectivity	user comment	Roughness RMS(Å)	TIME	DATE
	Θ s->	0	50					
14	Location 1	1.34E-03	2.66E-04	0.857	skip	30.5	13:07:31	12-18-1913
15		1.35E-03	2.66E-04	0.865		30.5	13:07:36	12-18-1913
16		1.35E-03	2.66E-04	0.863		30.5	13:07:43	12-18-1913
17	2	7.30E-04	1.25E-04	0.863		23.5	13:08:42	12-18-1913
18		7.35E-04	1.26E-04	0.864		23.6	13:08:47	12-18-1913
19	3	2.22E-03	3.87E-04	0.860		40.9	13:09:03	12-18-1913
20		2.22E-03	3.89E-04	0.860		40.8	13:09:08	12-18-1913
21	4	1.85E-03	2.44E-04	0.848		42.4	13:09:26	12-18-1913
22		1.85E-03	2.43E-04	0.850		42.4	13:09:33	12-18-1913
23	5	2.19E-03	3.72E-04	0.853		41.1	13:09:46	12-18-1913
24		2.18E-03	3.69E-04	0.852		41.2	13:09:51	12-18-1913
25	6	3.76E-03	7.57E-04	0.849		51.1	13:10:14	12-18-1913
26		3.75E-03	7.57E-04	0.850		51	13:10:20	12-18-1913
27	7	7.82E-04	1.29E-04	0.860		24.7	13:10:32	12-18-1913
28		7.80E-04	1.26E-04	0.861		24.9	13:10:37	12-18-1913
29	8	2.74E-03	3.85E-04	0.853		49.9	13:10:50	12-18-1913
30		2.74E-03	3.85E-04	0.852		49.9	13:10:56	12-18-1913
31	9	1.93E-03	2.90E-04	0.856		40.4	13:11:04	12-18-1913
32		1.93E-03	2.89E-04	0.854		40.5	13:11:09	12-18-1913
33	10	9.83E-04	1.53E-04	0.863		28.4	13:11:26	12-18-1913

