

Detector Viewer Summary

File : H:\ADLIGO\IFO\full_ifo_layout\D0901920 H1 Zemax layout.zmx

Title: D0901920-v4, Advanced LIGO, H1 Layout

Date : 8/15/2012

Incoherent Data

	Power	fractional scatter			
			scattering length	incident angle, deg	incident angle, rad
ETM HR surface					
Annular Volume 1080: spool 7A2 large dia	3.00E+00	3.00E-02	7904	5.4	0.09
Detector Surface 1084: PCal structure	2.00E+00	2.00E-02	4319	5	0.09
Detector Surface 1118: BSC bottom	4.67E+00	4.67E-02	2099	75	1.31
Detector Surface 1119: BSC front	2.67E+00	2.67E-02	1755	-60	-1.04
Detector Surface 1120: BSC back	3.33E-01	3.33E-03	1967	75	1.31
Polygon Object 1149: acb_wide-angle-baffle-side_H1_ITMx.POB	1.73E+01	1.73E-01	856	26	0.45
Polygon Object 1150: acb_wide-angle-baffle-side_H1_ITMx.POB	5.33E+00	5.33E-02	822	24	0.43
Rectangular Volume 1115: ITM/ETM middle envelope	3.33E+00	3.33E-02			
Rectangular Volume 1127: ARM CAVITY BAF PLATE top ETMX	3.33E-01	3.33E-03	764	57	0.99
Rectangular Volume 1128: ARM CAVITY BAF PLATE BOTTOM ETMX	3.33E+00	3.33E-02	574	43	0.74
Rectangular Volume 1130: ARM CAVITY BAF PLATE 2 ETMX	8.67E+00	8.67E-02	710	48	0.84
Rectangular Volume 1131: ARM CAVITY BAF PLATE 3 ETMX	3.00E+00	3.00E-02	585	35	0.62

Rectangular Volume 1133: ARM CAVITY BAF PLATE 5 ETMX	3.33E+00	3.33E-02	482	20	
Rectangular Volume 1147: ARM CAVITY BAF PLATE 6 ETMX	3.33E+00	3.33E-02	482	20	
Rectangular Volume 1145: ARM CAVITY BAF PLATE 7 ETMX	6.67E-01	6.67E-03			
Rectangular Volume 1147: WIDE ANGLE BAF TOP LEDGE ETMX	7.00E+00	7.00E-02			
Rectangular Volume 1148: WIDE ANGLE BAF BOTTOM LEDGE ETMX	2.17E+01	2.17E-01			
Detector Surface 1153: total scatter ETMX	1.00E+02	1.00E+00			
Rectangle 1154: total ACB baffle	2.03E+01	2.03E-01			
Detector Surface 1155: ADAPTER FLANGE OPENING	5.33E+00	5.33E-02			
Detector Surface 1156: MANIFOLD OPENING	5.33E+00	5.33E-02			
total scatter	3.23E+01	3.23E-01			
derived spoolpiece scatter	1.20E+01	3.71E-01	#REF!	#REF!	#REF!
GV2-48inch ITMX	4.33E-01	4.33E-03	#REF!	85	1.48

Rectangular Volume 1173: WIDE ANGLE BAF TOP LEDGE ITMX
Peak Power 4.9512E-001 Watts, Total Power = 8.9258E-001 Watts

Rectangular Volume 1174: WIDE ANGLE BAF BOTTOM LEDGE ITMX
Peak Power 1.2549E+000 Watts, Total Power = 2.4121E+000 Watts

Rectangular Volume 1175: WIDE ANGLE BAF PLATE 1 ITMX
Peak Power 3.1250E-001 Watts, Total Power = 4.4727E-001 Watts

Rectangular Volume 1176: WIDE ANGLE BAF PLATE 2 ITMX
Peak Power 8.9844E-001 Watts, Total Power = 1.1446E+000 Watts

Rectangular Volume 1177: WIDE ANGLE BAF PLATE 3 ITMX

Peak Power 1.2324E+000 Watts, Total Power = 1.4941E+000 Watts

Rectangular Volume 1178: WIDE ANGLE BAF PLATE 4 ITMX
Peak Power 1.1670E+000 Watts, Total Power = 2.0107E+000 Watts

Rectangle 1181: Plate above TM
Peak Power 5.9570E-002 Watts, Total Power = 6.6406E-002 Watts

Rectangular Pipe 1182: SUS ring around TM
Peak Power 1.9531E-002 Watts, Total Power = 9.9609E-002 Watts

Detector Surf 1183: total scatter ITMX
Peak Power 6.4160E-001 Watts, Total Power = 9.9961E+000 Watts

Rectangle 1184: total ACB baffle
Peak Power 1.8789E+000 Watts, Total Power = 2.8535E+000 Watts

Rectangle 1186: UPPER BSC
Peak Power 2.6367E-002 Watts, Total Power = 3.4180E-002 Watts

Rectangle 1187: FLOOR BSC
Peak Power 7.8125E-002 Watts, Total Power = 7.8125E-002 Watts

Detector Surf 1189: ADAPTER FLANGE OPENING
Peak Power 3.9063E-003 Watts, Total Power = 4.8737E-001 Watts

Detector Surf 1190: 3A-15 VIEWPORT FLANGE DETECTOR
Peak Power 1.9531E-003 Watts, Total Power = 3.7712E-001 Watts