

Detector Viewer Summary

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

Title: D0901920-v4, Advanced LIGO, H1 Layout

Date : SAT FEB 5 2011

Incoherent Data

	Power	fractional scatter	ZEMAX coordinate			scattering length	incident angle, deg	incident angle, rad
			x	y	z			
ITM HR surface			80	-200	5001			
Detector Surf 1140: total scatter ITMX	1.00E+01							
Rectangular Volume 1130: WIDE ANGLE BAF TOP LEDGE ITMX	8.93E-01	7.20E-02	-445	-200	5315	612	59	1.03
Rectangular Volume 1131: WIDE ANGLE BAF BOTTOM LEDGE ITMX	2.41E+00	1.95E-01	300	-200	5330	396	34	0.59
Rectangular Volume 1132: WIDE ANGLE BAF PLATE 1 ITMX	4.47E-01	3.61E-02	80	1046	5308	1283	76	1.33
Rectangular Volume 1133: WIDE ANGLE BAF PLATE 2 ITMX	1.14E+00	9.23E-02	80	718	5618	1106	56	0.98
Rectangular Volume 1134: WIDE ANGLE BAF PLATE 3 ITMX	1.49E+00	1.21E-01	80	-1019	5327	881	68	1.19
Rectangular Volume 1135: WIDE ANGLE BAF PLATE 4 ITMX	2.01E+00	1.62E-01	80	-662	5665	809	35	0.61
Rectangle 1181: Plate above TM	6.64E-02	5.36E-03	-159	-200	5042	242	80	1.40
Rectangular Pipe 1182: SUS ring around TM	9.96E-02	8.03E-03	254	-200	5012	174	86	1.51
Rectangle 1141: total ACB baffle	2.85E+00	2.30E-01	-70	0	5760	799	18	0.32
Rectangle 1143: UPPER BSC	3.42E-02	2.76E-03	-2000	-200	5364	2111	80	1.40
Rectangle 1144: FLOOR BSC	7.81E-02	6.30E-03	896	-200	5120	825	82	1.43
Detector Surf 1146: ADAPTER FLANGE OPENING (leaves BSC)	4.87E-01	3.93E-02						
Detector Surf 1147: 3A-15 VIEWPORT FLANGE DETECTOR (enters manifold)	3.77E-01	3.04E-02	80	-620	10000	5017	5	0.08
total scatter	1.24E+01	1.00E+00						
derived spoolpiece scatter	1.10E-01	8.89E-03	80	-600	7300	2334	10	0.17
GV2-48inch ITMX	4.33E-01	4.33E-03	-620	0	7157	2276	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