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FAX COVER PAGE

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REFER TO:	LIGO-T970224-00-B
SUBJECT:	More Rai's results on Y1

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rom: Rainer Weiss
ate: Mon Dec 15 08:14 PST 1997
o: ljones@ligo.caltech.edu
ubject: rgaspec gas solution for y1 module

cc1210sp.txt rgaspec5a

Procedure: two iterations with 0.1/step 10 steps
vary with largest gas solution first
initial χ^2 883 for 12 dof

Gas pressure solution vector
in torr liters/sec equiv leak

H2	=	9.277E-07	+-	1.210E-08	
CH4	=	4.877E-09	+-	7.186E-10	
H2O	=	-3.688E-11	+-	1.413E-09	
N2	=	2.295E-08	+-	1.947E-09	<2.3E-8
CO	=	2.224E-07	+-	5.230E-09	
O2	=	4.293E-09	+-	1.215E-10	<2.5E-8
A	=	1.245E-09	+-	6.577E-11	<7.2E-8
CO2	=	5.710E-08	+-	1.076E-08	
NO	=	3.369E-08	+-	4.277E-10	
C2H6	=	5.813E-10	+-	2.418E-10	

diagonal normalized covariance matrix

H2	1.0000	-0.0014	-0.0017	0.0005	0.0131
	0.0000	0.0000	0.0065	0.0007	-0.0031
CH4	-0.4110	1.0000	-0.0577	-1.9589	2.2562
	-0.0002	0.0000	-3.4270	-0.0031	-0.0532
H2O	-0.1269	-0.0149	1.0000	0.0254	-0.0013
	-0.0001	0.0000	-0.4358	-0.0001	0.0013
N2	0.0178	-0.2670	0.0134	1.0000	-1.6856
	0.0001	0.0000	1.1840	-0.0375	0.0254
CO	0.0703	0.0426	-0.0001	-0.2335	1.0000
	0.0000	0.0000	-0.4459	0.0066	-0.0130
O2	0.0046	-0.0083	-0.0097	0.0140	0.0005
	1.0000	0.0000	-0.2447	0.0000	0.0005
A	-0.0002	0.0000	0.0000	0.0001	-0.0005
	0.0000	1.0000	0.0017	0.0000	0.0000
CO2	0.0082	-0.0153	-0.0075	0.0387	-0.1053
	0.0000	0.0000	1.0000	0.0000	0.0007
NO	0.5474	-0.0087	-0.0008	-0.7763	0.9928
	0.0000	0.0000	-0.0078	1.0000	-0.0657
C2H6	-7.8196	-0.4703	0.0441	1.6486	-6.0803
	0.0001	0.0000	1.4201	-0.2056	1.0000

statistics

hisq = 2.3507E-01 for 12 dof; prob. chisq be this large = 1.0000E+00