E12 Inspiral Search: Summary

- Search in L1 was behind due to a problem with calibration (what's new?)
- Analysis Duty Cycle as %-age of science data:
 - L1: ~ 30%
 - H1: ~ 75%
 - H2: ~ 63%
 - Failures: calibration, segment lists, data movement, Condor overloads
- Hardware injections in L1 were satisfactorily recovered (13/14, missing one at 14 Mpc).



Some numbers

	Hrs searched	Trigger rate (clusters w/ SNR>7)	Max SNR	Number of outliers
L1	28	~0.9/min	86	~10 (0.6%)
H1	67	~0.3/min	3442(!)	~30 (2%)
H2	70	~0.2	1620(!)	~100 (15%)

Some plots: H1



Some plots: H2



Some plots: L1



Largest SNR Outlier: H1(3442)



Largest SNR Outlier: H2 (1620)



Largest SNR Outlier: L1(86)



Hardware Injections



Hardware Injections



Inspiral notebook entries:

Inspiral E12 investigations

http://www.lsc-group.phys.uwm.edu/iulgroup/investigations/engrun.html#e12

In particular,

Loudest triggers follow up:

http://www.lsc-group.phys.uwm.edu/cgibin/enote.pl?nb=e12&action=view&page=7

Hardware injections:

http://www.lsc-group.phys.uwm.edu/cgibin/enote.pl?nb=e12&action=view&page=5

InspiralMon (D. Brown)

000

Elot Window Help 王帅命令 Mandars Graphics 10. H1 Inspiral Search H1 Inspiral Triggers . 14 10 H1 SrySo Hist H1_SAVSq_Hal_SAV 10° HI Stylig Hat 2h to Noise Ratio 10 Count 10 80 Signal H1_Analyzed_Data HI Ma SNR 848 H1 Mean SNR LOT Max COURT -10 100 Signal to Noise Ratio Squared Time (h) T0+07/02/2005 06:49:53 632461 Avge1 T0+07/02/2005 18:49:53 656073 H1 Inspiral Search H1 Inspiral Triggers . H1_ONSig_Hat_127 HI Chilling Held Ohr H1 Chillio Heat 2h 50 16 Trippers Count 8 101 39 Carlos and **Number** 10. Time (h) Chi Squared T0=07/02/2005 06:49:53 632464 Ave=1 T0=07/02/2005 18:49:53.636073 Print Reset Zoom Active New Options. import. Export. Reference. Calibration Math Update Run. Exit.

N DMT Viewer - /opt/CDS/d/controls/H1_inspiral_fom.xml