In attendance:

- @AEI: C. Cutler, M. Allessandra Papa
- @Birmingham: A. Vecchio
- @CIT: S. Anderson, T. Creighton, R. Drever
- @Glasgow: G. Woan
- @LHO: D. Gustafson, M. Landry, G. Mendell
- @Los Alamos: R. Dupuis
- @Michigan: K. Riles

1. Documentation update (all)
   (a) MAP asks that you submit all sources (e.g. .tex files) to CVS
   (b) MAP committed drafts of LALDemodValidation and writeup of UL description *(What method is the pulgroup going to use to set ULs on the GW emission from known pulsars)*
   (c) RD, GW: t-domain document and package has been added to CVS archive prior to meeting, intact
   (d) GM: knownpulsardemod document in LAL tex format therefore not compilable outside LAL wrapper, will check in, with README explanation
   (e) KR to start unbiased search (‘living’) document this week
   (f) AV: Chris is writing report for Friday, document will check-in to CVS next week

2. Known pulsar time-domain analysis walk-through (R. Dupuis, G. Woan)
   (a) RD, GW went through Status Report on Known Pulsars - note latest release of paper at RD website http://www.astro.gla.ac.uk/users/rejean/pulsars/
   (b) multiple filtering - RD uses two steps, as going straight from 16kHz down require sharp filter hence go through simpler filters, two stages
   (c) GW: heterodyning removes periodicity of pulsar itself, revealing periodicity induced by the ifo beam pattern
   (d) KR asks about worst case for eqn 22, 23 (posterior probability density function) - how much worse would the upper limit get: $2 \times \cdot 10 \times$? RD, GW: to be determined
   (e) CC notes theorists won’t worry about 5% difference on this astrophysical limit
(f) SA asks if it has been shown that sigma-squared (eqn 15) obeys statistics of gaussianity (e.g. can you evaluate higher order moments to determine this?)

(g) RD to show plots at next telecon, or via email

(h) GW intends to produce final report, including plots, prior to Friday Oct 4th LSC telecon

3. S1 investigations

(a) SFT production
   i. GM: produced 2048s SFTs on LIGO S1 data, based on Gaby’s locked stretches
   ii. these SFT data are available via ligotools, with ldas password
   iii. GM tested getsftdata tcl script to show ldas returns what you’ve asked for (cf. GM email)
   iv. note that gaps in S1 data appear whenever DAQ reboots occurred
   v. when ifo not locked, SFT contains all zeros, GM to investigate what happens in LDAS when you ask for sft data in which there is a (DAQ reboot-induced) gap
   vi. MAP is currently debugging LALdemod, to coordinate with GM
   vii. MAP GEO SFTs: 3/4 done producing them, using calibrated h(t)
   viii. concentrated on freq band of 1Hz about 1283Hz, some confusing results given h(t), MAP will contact GEO experimentalist in this regard
   ix. note that during recent BURST group face-to-face, ran GEO data through LIGO burst search which triggered each second: 1s piecewise calibration induced spurious triggers, however, MAP expects this is not the problem for some of the GEO SFTs

(b) S1 data: a preliminary look
   i. DC plots at http://tenaya.physics.lsa.umich.edu/ dwchin/LIGO/SFT/S1/
   ii. KR: very preliminary look, ‘thresholds’ better termed ‘ceilings’, so that the quietest data are those with thresholds of 5%, noisiest, 100%.
   iii. KR: focus around 660Hz and introduce known artifact i.e. odd harmonic of 60Hz

(c) Pulsar repository
   i. GW confirms Glasgow can do this despite the heavy workload

(d) Calibrated LIGO data to GEO
   i. deferred discussion until later
   ii. ML, RD to look into this

4. Next telecon on Tuesday Oct 1, 2002

(a) Given the PULG presentation of Oct 4 to the LSC, propose telecon for Tuesday instead of Thursday

(b) Rejean is moving back to Glasgow so may not attend

(c) For next week only, telecon is thus moved to Tuesday

5. Proposed outline for Oct 4th LSC-wide telecon

(a) please see http://www.aei.mpg.de/ papa/pulsars/lsc-wide.html

(b) Detail review of this at next Tuesday’s telecon

Next telecon (note special time): Tuesday(!), 1 October 2002 at 8:30am PDT (11:30am EDT, 15:30 UTC, 17:30 CET)