

Stochastic f2f @ Bethesda

General

- 1-day meeting
- Mainly presentations
- Not enough time for discussions
- 2 Virgo members (1 stochastic / 1 burst)

Update of Current Searches

- **S6 isotropic:** almost complete, paper in preparation (PRD). Compared to S5: 20% improvement at low frequencies (HL) and $\times 3.5$ at high frequency ; **Virgo/LIGO analysis run by LIGO student**
- **S5 H1H2:** complete, paper in preparation. UL comparable to HL at low frequencies, significant improvement at high frequencies (3 order of magnitudes)
- **STAMP:** development of all sky search (S5/S6 analysis this summer), review on lgrb searches underway.

Still in development

- **S6 SCO X1**: implementation of smaller bin size in the directional search
- **S5 millisecond pulsars in Virgo cluster**: not enough new results for a paper, will look at galactic disk.
- **RTX**: time domain cross-correlation

New studies

- **SCHUMAN Resonance:** source of correlated noise and potential source of bias with AdLV, correlated noise subtracted under study.
- **Parity violation:** development of new formalism, tests for power law models, UL and AdLV sensitivities estimated for S5 for axion inflation models, promising for differentiating astro/cosmo SGWB
- **MDC:** use realistic simulation package developed for ET include flat SGWB and the population CBC ; recover non gaussian SGWB, problems with separated detectors (different response function convention ?)