# Alternative Cosmology Group Newsletter - December 2006

Posted January 2, 2006 [erratum - should read Posted January 2, 2007]

**Reports on results that contradict the Michelson-Morley experiment and a related article on a flat-space theory of general relativity**

A New Light-Speed Anisotropy Experiment: Absolute Motion and Gravitational Waves Detected
Authors: Reginald T Cahill (Flinders University)
**http://lanl.arxiv.org/abs/physics/0610076**

Deriving the General Relativity Formalism: Understanding its Successes and Failures
Authors: Reginald T Cahill (Flinders University)
**http://lanl.arxiv.org/abs/physics/0611002**

**An apparently non-Doppler redshift of a few hundred m/s reported on just one spectral line form the Sun.**

Sun-as-a-Star Spectrum Variations 1974-2006
Authors: W. Livingston, L. Wallace, O. R. White, M. S. Giampapa
**http://lanl.arxiv.org/abs/astro-ph/0612554**

**This report shows evidence for compact clouds only a billion kilometers across.**
(Editors note: I found this particularly interesting as plasma theory indicates that there should be a fractal hierarchy of magnetically confined filaments in intergalactic space. The clouds claimed would have the right density and size to fit into this hierarchy. However there are a number of assumptions involved and there are other explanations for the rapidly variable absorption lines.)

Strongly Variable z=1.48 MgII and FeII Absorption in the Spectra of z=4.05 GRB 060206
Authors: H. Hao, K. Z. Stanek, A. Dobrzycki, T. Matheson, M. C. Bentz, J. Kuraszkiewicz, P. M. Garnavich, J. C. Howk, M. L. Calkins, G. Worthey, M. Modjaz, J. Serven
**http://lanl.arxiv.org/abs/astro-ph/0612409**

**Yet more problems with too-old galaxies. Some galaxies at z~1 seem older than the Big Bang and there is no Metallicity evolution for AGN as far back as z=4.5.**

The Ages of Early-Type Galaxies at z~1
Authors: Sperello di Serego Alighieri, Alessandro Bressan, Lucia Pozzetti
**http://lanl.arxiv.org/abs/astro-ph/0612047**

Metallicity Evolution of Active Galactic Nuclei
Authors: Tohru Nagao (National Astronomical Observatory of Japan), Roberto Maiolino (INAF Roma), Alessandro Marconi (Florence Univ.)
**http://lanl.arxiv.org/abs/astro-ph/0612570**