

Alternative Cosmology Group Newsletter - November 2006

Posted November 29, 2006

MOND theory and observations continue to be hot topics

MOND rotation curves of very low mass spiral galaxies

Authors: Mordehai Milgrom, Robert H. Sanders

<http://lanl.arxiv.org/abs/astro-ph/0611494>

An insight into the baryon-gravity relation in galaxies

Authors: Benoit Famaey, Gianfranco Gentile, Jean-Philippe Bruneton, HongSheng Zhao

<http://lanl.arxiv.org/abs/astro-ph/0611132>

Yet another negative result in the search for non-baryonic matter

A Telescope Search for Decaying Relic Axions

Authors: Daniel Grin, Giovanni Covone, Jean-Paul Kneib, Marc Kamionkowski, Andrew Blain, Eric Jullo

<http://lanl.arxiv.org/abs/astro-ph/0611502>

Galaxies at $z=2.5$ seem to be extremely dense, using expanding universe assumptions. (If the universe is not expanding, the linear scales of these galaxies are 6.5 times larger, eliminating the high density)

NICMOS Imaging of DRGs in the HDF-S: A Relation Between Star-Formation and Size at $z \sim 2.5$

Authors: Andrew W. Zirm (JHU), A. van der Wel (JHU), M. Franx (Leiden Observatory), I. Labbe (Carnegie Observatories), I. Trujillo (U of Nottingham), P. van Dokkum (Yale), S. Toft (ESO), E. Daddi (CEA/Saclay), G. Rudnick (NOAO), H.-W. Rix (MPIA), H.J.A. Rottgering (Leiden Observatory), P. van der Werf (Leiden Observatory)

<http://lanl.arxiv.org/abs/astro-ph/0611245>

More evidence on fractal structure of universe

Power law correlations in galaxy distribution and finite volume effects from the Sloan Digital Sky Survey Data Release Four

Authors: Francesco Sylos Labini, Nickolay L. Vasilyev, Yurij V. Baryshev

<http://lanl.arxiv.org/abs/astro-ph/0610938>

Confirmation that radio-loudness declines with redshift for QSOs. A good challenge to all explanations of QSO redshifts.

The Radio-Loud Fraction of Quasars is a Strong Function of Redshift and Optical Luminosity

Authors: Linhua Jiang, Xiaohui Fan, Zeljko Ivezić, Gordon T. Richards, Donald P. Schneider, Michael A. Strauss, Brandon C. Kelly

<http://lanl.arxiv.org/abs/astro-ph/0611453>

More analysis of WMAP alignments

The Axis of Evil revisited

Authors: Kate Land, Joao Magueijo

<http://lanl.arxiv.org/abs/astro-ph/0611518>

A revised discussion of the possibility of flat-space general relativity

The Possibility of Curved Spacetime, Black Holes, and Big Bang is Less than One Billionth

Author: Jin He

<http://lanl.arxiv.org/abs/astro-ph/0512614>