

**PASA**  
**Contents      Volume 29    Number 4      2012**

**RESEARCH FRONT: 1. Missing Satellites**

Galaxies on Sub-Galactic Scales

*H. Jerjen*

383–394

The Dark Matter Crisis: Falsification of the Current Standard Model of Cosmology

*P. Kroupa*

395–433

**RESEARCH FRONT: 2. Supernovae and their Host Galaxies**

Near-Infrared Properties of Type Ia Supernovae

*M. M. Phillips*

434–446

Type-Ia Supernova Rates and the Progenitor Problem: A Review

*D. Maoz and F. Mannucci*

447–465

Light Echoes of Transients and Variables in the Local Universe

*A. Rest, B. Sinnott and D. L. Welch*

466–481

Systematically Bridging the Gap Between Novae and Supernovae

*M. M. Kasliwal*

482–488

**REGULAR PAPERS**

Distance Measurements and Stellar Population Properties via Surface Brightness Fluctuations

*A. Fritz*

489–508

Absolute-Magnitude Calibration for Red Giants Based on Colour–Magnitude Diagrams of Galactic Clusters: I. Calibration in  $V$  and  $B-V$

*S. Karaali, S. Bilir and E. Yaz Gökçe*

509–522

Physical Parameters of the Visually Close Binary Systems Hip70973 and Hip72479

*M. Al-Wardat*

523–528

The Fine-Tuning of the Universe for Intelligent Life

*L. A. Barnes*

529–564