

Contents

Preface	5
Identification of modes in main-sequence pulsators by means of multi-color photometry by J. Daszyńska-Daszkiewicz, W.A. Dziembowski, A.A. Pamyatnykh	6
Influence of the convective flux perturbation on stellar oscillations: application to δ Scuti and γ Doradus stars by A. Grigahcène, M-A. Dupret, R. Garrido, M. Gabriel and R. Scuflaire	9
Testing the internal physics of white dwarfs from their pulsational properties by J. Isern, E. García-Berro, A.H. Corsico, O.G. Benvenuto and L.G. Althaus	12
The Blazhko Effect: Facts, Figures and Future work by K. Kolenberg	15
Numerical modelling of the RR Lyrae instability strip by R. Szabó	20
<i>UBVI</i> Time-series Photometry of the Old LMC Globular Cluster Reticulum by V. Ripepi, M. Monelli, M. Dall'Ora et al.	23
Long-term photometric study of LBVs in M33 by A. Zharova and O. Sholukhova	26
Cepheids in binary systems – new candidates in the Magellanic Clouds by L. Szabados	27
A continuous population of variable stars up to about 1.5 mag above the horizontal branch? by L. Baldacci, G. Clementini, E.V. Held, M. Marconi, L. Rizzi	30
The core/envelope asymmetry in p-mode pulsating stars by A. Miglio and E. Antonello	35
Mapping non-radial pulsation using surface imaging techniques by S.V. Berdyugina, H. Korhonen, J.H. Telting, C. Schrijvers	38
High Amplitude δ Sct-type variables by E. Rodríguez	40
Pulsational behaviour of the HADS RY Lep by E. Rodríguez, C.D. Laney, P.J. Amado, M.J. López-González and M. Jonev	46
SZ Lyn: New pulsational and orbital elements based on old and recent photometric observations by K.D. Gazeas, P.G. Niarchos, K.A. Boutsia	47
Short-Period Variables in ASAS Photometry by J. Molenda-Žakowicz	48
Asteroseismology of Procyon: Preliminary results from SARG by R.U. Claudi, A. Bonanno, R. Ventura et al.	51
The use of Petersen diagrams and period ratios in investigating the pulsational content of stars in the classical Instability Strip by E. Poretti and M. Beltrame	53

Period–radius relation for semiregular and Mira stars	58
by K. Szatmáry	
Relevant issues in the study of Pre-Main Sequence δ Scuti stars	59
by M. Marconi, V. Ripepi, F. Palla and A. Ruoppo	
Pulsating stars in open clusters	65
by T. Arentoft, L.M. Freyhammer, M.Y. Bouzid, C. Sterken and S. Frandsen	
A Variable Star Survey of the Open Cluster NGC 2126	68
by A. Gáspár, L. L. Kiss, A. Derekas et al.	
Amplitude and frequency variability of pulsating stars	69
by G. Handler	
New observational results on pulsating B stars	72
by A. Pigulski	
Radial Velocity variations of the roAp-star HD122970: new results	77
by A. Gamarova, A.P. Hatzes and D. Mkrtichian	
Pulsation and Binarity in RZ Cas	78
by E. Rodríguez, J.M. García, D.E. Mkrtichian et al.	
AB Cas revisited	81
by E. Rodríguez, P.J. Amado, J.M. García, V. Costa and M.J. López-González	
A few concluding remarks	82
by A. Baglin	