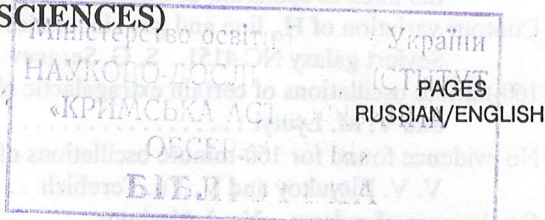


CONTENTS

VOLUME 83

1991

BULLETIN OF THE CRIMEAN ASTROPHYSICAL OBSERVATORY (USSR ACADEMY OF SCIENCES)



Magnetic loops with current in the neighborhood of H α flares. V. I. Abramenko, S. I. Gopasyuk, and M. B. Ogir	1	3	1
Inclined streaks in the H α line in active regions on the Sun. L. G. Kartashova	9	12	9
The helioseismology experiment on the Phobos planetary mission. Preliminary results. C. Frohlich, R. M. Bonnet, A. V. Bruns, J. C. Vial, J. P. Delaboudiniere, V. Domingo, Z. Kollath, V. A. Kotov, D. N. Rachkovskii, Ch. Wehrli, T. Toulain, and S. M. Shumko		22	18
The 160-minute period in differential measurements of the brightness of the Sun (1976-1987). V. A. Kotov, L. V. Didkovskii, and V. I. Khaneichuk		34	27
Dimensions of the Sun's disk at 8.2 and 13.5 mm. I. G. Moiseev and N. S. Nesterov		50	40
Solar-flare plasma diagnostics based on microwave emission. A. D. Granat, A. V. Stepanov, and L. I. Tsvetkov		53	43
Correlation between intensity variations in solar noise storms at two meter- band frequencies. Yu. F. Yurovskii and O. Alvares		60	49
Spectrophotometric observations of Epsilon Aurigae at 2400-8015 Å during the eclipse of 1982-1984. N. I. Bondar, A. A. Boyarchuk, V. I. Burnashev, R. E. Gershberg, A. V. Terebizh, and N. I. Shakhovskaya		68	57
Atmospheric chemical composition of the K0 giants ϵ Cyg and ϵ Tau. III. S. V. Berdyugina, M. E. Boyarchuk, and I. S. Savanov		86	74
Investigation of the atmospheres of cold giants based on molecular spectra. I. The CN molecule. S. V. Berdyugina		102	89
H α photometry and magnetic field of β lyrae. V. I. Burnashev and M. Yu. Skul'skii		108	95
The symbiotic eclipsing variable CI cyg. Results of UBV and UBVR photometric observations in 1973-1988. T. S. Belyakina		118	104
Five-color photometry of AC Cnc in 1985-1989. I. E. S. Dmitrienko		131	116
Rotational light modulation and differential rotation of RY Tau. epochs 1981-1986. P. F. Chugainov, G. V. Zaitseva, and M. N. Lovkaya		139	123
Axial rotation of BY Dra stars and related objects. P. F. Chugainov		146	130

(continued)

Diagnostic possibilities of the Walrawen photometric system.		
A. V. Berdyugin	152	136
Rapid variations of atmospheric extinction. II. Simultaneous observations of atmospheric transparency at various telescopes. V. I. Burnashev, B. A. Burnasheva, N. I. Merkulova, and L. P. Metik	156	140
Observations of galaxies and other star systems on the Astron astrophysical station: observing procedure. Results of processing. A. A. Boyarchuk, R. E. Gershberg, A. M. Zvereva, G. Courtes, N. I. Merkulova, L. P. Metik, V. I. Pronik, I. I. Pronik, P. P. Petrov, A. V. Terebizh, G. M. Tovmasyan, and C. T. Hua	177	160
Multiyear spectral observations of the nuclei of active galaxies in the optical region of the spectrum. II. Variation of profile shape of H_{β} line in the nucleus spectrum of Mkn 6. K. K. Chuvaev	194	177
Contour variation of H_{α} line and gas kinematics in the nucleus of the Seyfert galaxy NC 4151. S. G. Sergeev	205	187
160-minute oscillations of certain extragalactic objects. V. A. Kotov and V. M. Lyutyi	216	197
No evidence found for 160-minute oscillations of the light of NGC 4151. V. V. Biryukov and V. Yu. Terebizh	230	210
On the ages of pulsars. Yu. I. Neshpor	242	220
Application of multivariate statistical analysis methods to classification of radio pulsars. A. P. Kornienko and E. R. Kornienko	247	225
Application of the method of principal components in searching for gamma sources. Yu. L. Zyskin and A. P. Kornienko	253	231
A highly efficient criterion for selection of gamma showers when source coordinates are known. Yu. L. Zyskin	258	235
Use of cluster analysis in processing multichannel gamma telescope observations. A. P. Kornienko	264	241
Adjustment-check system for the Spika space telescope. A. F. Lagutin	267	244
A modified Schmidt system. G. M. Popov	271	247

(continued)