

Contents

VOLUME 57

1977

	PAGES
	RUSSIAN/ENGLISH
Analysis of the atmospheres of semiregular variable stars. M. E. Boyarchuk, M. A. Kipper, and L. F. Khyanni.....	3 1
Analysis of the spectral variability of the Ap star 73 Dra, Part 1. N. S. Polosukhina and S. N. Dodonov.....	19 14
Gaseous envelopes of stars of the BY Dra type. P. F. Chugainov.....	31 22
Close binary systems of the early spectral classes of possible x-ray sources. I. Spectral observations of X Persei. T. S. Galkina.....	45 34
Energy distribution in the spectra of fifty stars. V. I. Burnashev.....	57 44
Accuracy of fundamental quasimonochromatic stellar photoelectric photom- etry. V. M. Zhilin.....	82 67
Formation depths of spectral lines and the curve-of-growth method. L. S. Lyubimkov.....	87 71
Point gamma sources and cosmic-ray distribution over the galactic disk. A. A. Stepanyan.....	99 80
Photospheric gas motions in an isolated sunspot. S. I. Gopasyuk.....	107 87
Magnetic fields and proper motions of sunspots, II, Group 420, October 1968. B. Kalman.....	122 99
Measurement of the magnetic fields in prominences and flares by a photo- graphic method. A. N. Koval.....	133 106
Results of the 1974 magnetograph calibration program. K. Pflug, M. Klvana, and J. Suda.....	144 116
Radio emission of an intense active region on the sun in July 1974 at wavelengths of 3.5, 2.5, and 1.9 cm. A. F. Bachurin, A. S. Dvoryashin, and N. N. Eryushev.....	156 125
Diffraction and reflection of radio waves from the lunar limb during so- lar eclipses. O. Alvarez and Yu. F. Yurovskii.....	169 135
Jovian decametric emission and its temporal variations. L. S. Levitskii.	177 142
Polarization observations of solar radio emission in the wavelength range 1.9-3.5 cm. L. I. Tsvetkov.....	189 152
Computer method for eliminating the effect of radiometer instability on the measurement results. S. L. Dominin, V. A. Efanov, V. A. Korsenskii, I. G. Moiseev, and N. S. Nesterov.....	199 160
System for real-time recording and analysis of radio-astronomy data. S. L. Dominin, V. A. Efanov, E. S. Korsenskaya, V. A. Korsenskii, I. G. Moiseev, N. S. Nesterov, and I. D. Strepka.....	205 166
Photon-counting magnetograph and polarimeter for measuring circular po- larization in narrow and broad spectral bands. A. B. Bukach, L. V. Granitskii, V. N. Komissarov, and V. M. Kuvshinov.....	209 171
Cerenkov source as a possible radiation standard in the vacuum UV. V. K. Prokof'ev.....	221 181
Interference-phase method for measuring radial velocities in the solar atmosphere. S. M. Gorskii and V. P. Lebedev.....	228 187
Interference-phase method for measuring magnetic fields in the solar at- mosphere. I. V. Gorbacheva, S. M. Gorskii, V. P. Lebedev, and V. I. Lyubimtsev.....	237 195