



## CONTENTS

<i>Preface</i>	<i>page</i> vii
1. W. BAADE: Large-scale structure of spiral nebulae	1
2. V. A. AMBARTSUMIAN: Some remarks on multiple galaxies	4
3. M. W. FEAST, A. D. THACKERAY and A. J. WESSELINK: A study of bright members of the Large Magellanic Cloud	7
4. B. LINDBLAD and P. O. LINDBLAD: On rotating ring orbits in galaxies	8
5. H. C. VAN DE HULST: The distribution of atomic hydrogen in the Galaxy	16
6. N. U. MAYALL: Spectroscopic evidence bearing on the distri- bution of gas in extra-galactic systems	23
7. THE LATE G. A. SHAJN: On the role of diffuse emission nebulae in galaxies	32
8. R. HANBURY BROWN: Galactic and extra-galactic radio frequency radiation due to sources other than the thermal and 21-cm emission of the interstellar gas	37
9. J. E. BALDWIN: The radio emission from the Galaxy and the Andromeda nebula	44
10. B. V. KUKARKIN: Variable stars and problems of general structure of galaxies	49
11. W. P. BIDELMAN: The space distribution of middle- and late- type super-giants in the region of the galactic system near the sun	54
12. W. W. MORGAN: The observation of blue giant stars at great distances from the sun	57
13. I. M. KOPYLOV: The spatial distribution of novae and super-novae	63

14. B. A. VORONTSOV-VELYAMINOV: Spiral structure and the  
rotation of galaxies *page* 65
15. D. E. SHCHEGOLEV: On the structure of galaxies according  
to photometric studies 67
16. J. H. OORT: Comparison of the Galactic System with other  
stellar systems 69

