CONTENTS

Preface

I. INSTABILITY IN DWARF STARS OF LATER TYPE:
T TAU RI STARS AND RELATED OBJECTS, AND
THE UV CETI VARIABLES

1. GEORGE H. HERBIG: On the nature and origin of the
T Tauri stars

2. P. N. KOLOPOV: Irregular variable stars of the RW Aurigae
type

3. C. HOFFMEISTER: On RW Aurigae type stars and related
types

4. GUILLERMO HARO: The possible connexion between T Tauri
stars and UV Ceti stars

5. ALFRED H. JOY: Flare spectra in dwarf stars

6. F. LENOUVEL: Photo-electric observations of AE Aquarii

II. INSTABILITY IN THE HOT STARS OF LOW LUMINOSITY
AND IN THE NOVAE

7. JESSE L. GREENSTEIN: Evidence for instability among sub-
luminous stars

8. MERLE F. WALKER: The extremely rapid light-variations of
old novae and related objects


10. I. M. KOPOLOV: Sub-system of novae

11. L. E. GUREVITCH and A. I. LEBEDINSKY: On the causes of
stellar bursts

12. I. S. SHKLOVSKY: On the nature of planetary nebulae

Discussion
III. Instability in the Luminous Stars of Early Type

13. B. A. Vorontsov-Velyaminov: On the atmospheres of the Wolf-Rayet stars \(\text{page} \ 91\)

14. Otto Struve: Instability in stars of early spectral type \(93\)

Discussion \(108\)

IV. Instability in the Regular Variables of Later Type

15. B. V. Kukarkin: Variable stars and problems of stellar formation \(111\)

16. V. P. Tselevich: The stars with double envelopes \(116\)

V. Phenomena of Instability in Binary Systems

17. Zdeněk Kopal: The instability of sub-giants in close binary systems \(123\)

18. D. J. Martynov: Phenomena of non-stability in close binary systems \(138\)

19. Frank Bradshaw Wood: Photometric evidence of instability in eclipsing systems \(144\)

20. V. A. Krat: Non-stability in close binary stars \(159\)

21. A. McKellar and R. M. Petrie: The chromospheric spectrum and the atmosphere of 31 Cygni \(165\)

Discussion \(173\)

VI. Physical Sources Causing Instability

22. V. A. Ambartsumian: Stars of T Tauri and UV Ceti types and the phenomenon of continuous emission \(177\)

Addendum to the preceding paper \(185\)

23. P. Ledoux: Possible sources of instability in stars \(186\)

Discussion \(200\)