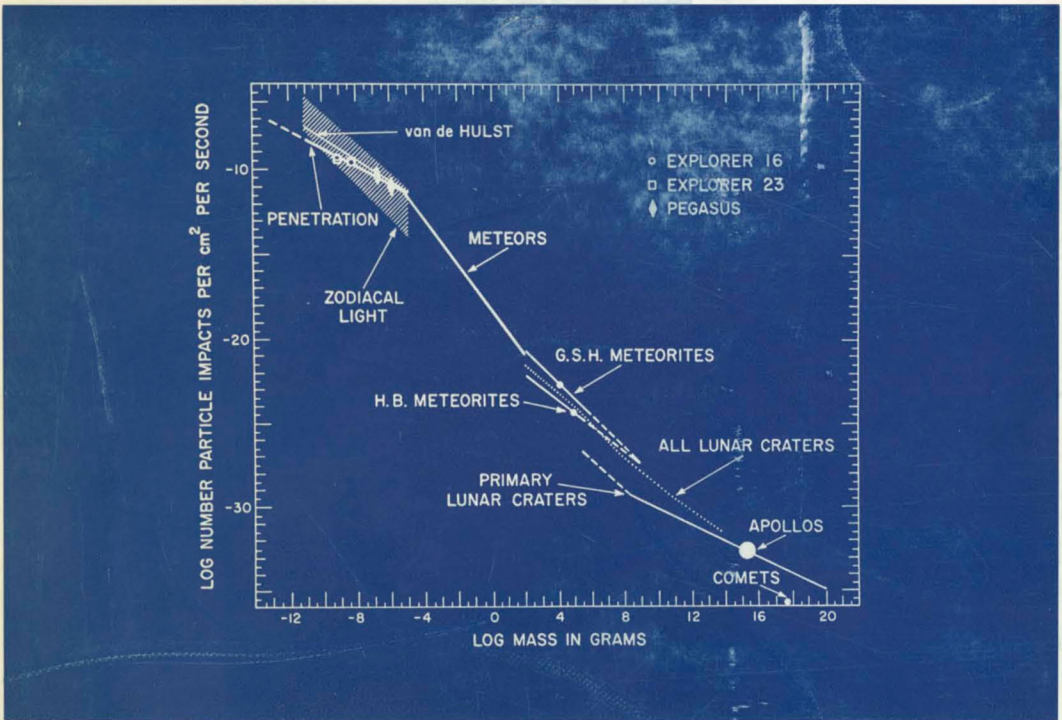


# PHYSICS AND DYNAMICS OF METEORS

Edited by Ľ. KRESÁK and P. M. MILLMAN



INTERNATIONAL ASTRONOMICAL UNION

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# PHYSICS AND DYNAMICS OF METEORS

SYMPOSIUM No. 33

In recent years there has been a great rise in meteor research affected, in particular, by the development of radio-echo techniques and impact measurements from rockets and spacecraft. In connection with the increasing interest in the conditions found in interplanetary space, great attention has been paid to the influx of meteoric particles of various sizes on the Earth, their physical and chemical properties, interaction with the upper atmosphere, and to the distribution and evolution of meteor orbits in the solar system.

The first international symposium on meteor astronomy under the sponsorship of the International Astronomical Union, held at Tatranská Lomnica on September 4 to 9, 1967, was attended by 66 invited participants from 12 countries. The present volume includes 48 papers on various problems of meteor physics and dynamics presented to this symposium. The following topics are covered: meteor radar echoes; meteor spectra; theory of ablation; theory of luminosity and ionization; structure and fragmentation of meteoroids; meteor masses; meteor velocities and orbits; interpretation of rocket and satellite observations of meteoroid impact; the size distribution of meteoroids; the structure and evolution of meteor streams; distinction between asteroidal and cometary meteors; the origins of meteoritic material. Each section is introduced by an invited survey paper intended to bring the reader up-to-date with the present state of research in the subjects treated in the contributed papers, and essentials of extensive discussions are appended.

The book will be of value to all research workers and students interested in the wide variety of problems of meteor phenomena, upper atmosphere, circumterrestrial space, and interplanetary matter.

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# PHYSICS AND DYNAMICS OF METEORS

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UNION ASTRONOMIQUE INTERNATIONALE

SYMPOSIUM No. 33

HELD AT TATRANSKÁ LOMNICA, CZECHOSLOVAKIA,  
4-9 SEPTEMBER 1967

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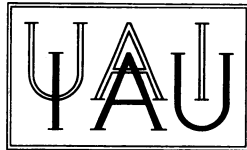
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## CONTENTS

Introduction	v
List of participants	xI

### SESSION 1

CHAIRMAN: W. G. ELFORD

1.	P. M. Millman	The radar meteor echo (survey paper)	3
2.	N. S. Andrianov, R. A. Kurganov, A. M. Nasirov, and V. V. Sidorov	Oblique-scattering method for measuring individual radiants and meteor velocities	14
3.	V. N. Lebedinec and A. K. Sosnova	Radio reflections from meteor trails	27
4.	A. Hajduk	Factors affecting radar-meteor echo durations	45
5.	B. A. Lindblad	Long-term variations in meteor radar rates, meteor heights and radar-echo amplitudes	50
6.	J. Grygar, L. Kohoutek, and Z. Plavcová	Simultaneous radar and optical observation of meteors at Ondřejov in 1962	63

### SESSION 2

CHAIRMAN: B. A. LINDBLAD

7.	Z. Ceplecha	Meteor spectra (survey paper)	73
8.	P. M. Millman	A brief survey of upper-air spectra	84
9.	I. Halliday	The influence of exposure duration and trail orien- tation on photographic meteor spectra	91
10.	H. Hirose, K. Nagasawa, and K. Tomita	Spectral studies of meteors at the Tokyo Astro- nomical Observatory	105
11.	R. Barbon and J. A. Russell	Some unusual spectra of meteors from the Palomar 18-inch Schmidt file	119
12.	P. B. Babadžanov and E. N. Kramer	Some results of investigations of instantaneous meteor photographs	128
13.	L. Kohoutek	Atmospheric heights of telescopic meteors	143

## SESSION 3

CHAIRMAN: R. B. SOUTHWORTH

- |     |                |   |     |
|-----|----------------|---|-----|
| 14. | A. F. Cook     | The physical theory of meteors (survey paper)   | 149 |
| 15. | T. R. Kaiser   | Diffusion of meteor trains in the geomagnetic field   | 161 |
| 16. | K. V. Kostylev | Some aspects of the creation of meteor trains and radio-wave scattering from them             | 169 |
| 17. | P. Glöde       | Estimation of attachment rate from the different echo duration of night- and day-time meteors | 175 |
| 18. | J. Rajchl      | A note on the head echo problem   | 187 |

## SESSION 4

CHAIRMAN: V. V. FEDYNSKIJ

- |     |                                      |   |     |
|-----|--------------------------------------|---|-----|
| 19. | V. N. Lebedinec<br>and V. B. Šušková | Evaporation and deceleration of small meteoroids  | 193 |
| 20. | T. R. Kaiser and<br>J. Jones         | The ablation of solid meteoroids  | 205 |
| 21. | A. N. Simonenko                      | The separation of small particles from meteor bodies, and its influence on some parameters of meteors | 207 |
| 22. | Ľ. Kresák                            | The relation between orbits and physical characteristics of meteors                                   | 217 |
| 23. | E. N. Kramer                         | On the structure and chemical composition of meteor bodies of cometary origin                         | 236 |

## SESSION 5

CHAIRMAN: B. JU. LEVIN

- |     |  |  |     |
|-----|--|--|-----|
| 24. | V. N. Lebedinec                                | Radar meteor orbits (survey paper)                                       | 241 |
| 25. | R. E. McCrosky                                 | Orbits of photographic meteors (survey paper)                            | 265 |
| 26. | C. S. Nilsson and<br>R. B. Southworth          | The flux of meteors and micrometeoroids in the neighborhood of the Earth | 280 |
| 27. | N. Carrara,<br>A. Consortini, and<br>L. Ronchi | On the radiant distribution of sporadic meteors                          | 288 |
| 28. | J. Štohl                                       | Seasonal variation in the radiant distribution of meteors                | 298 |
| 29. | L. Trísková                                    | A note on the sporadic meteor radiant distribution                       | 304 |
| 30. | I. S. Astapovič and<br>A. K. Terenteva         | Fireball radiants of the 1st–15th centuries                              | 308 |



## SESSION 6

CHAIRMAN: C. L. HEMENWAY

- |     |                                     |  |     |
|-----|-------------------------------------|--|-----|
| 31. | T. R. Kaiser                        | The interplanetary dust cloud (survey paper)   | 323 |
| 32. | B. A. McIntosh                      | Meteor mass distribution from radar observations   | 343 |
| 33. | W. G. Elford                        | Meteor shower mass distribution from radar echo counts   | 352 |
| 34. | M. Šimek and<br>B. A. McIntosh      | Meteor mass distribution from underdense-trail echoes  | 362 |
| 35. | O. I. Belkovič and<br>J. A. Pupyšev | The variation of sporadic meteor radiant density and the mass law exponent over the celestial sphere | 373 |
| 36. | T. N. Nazarova                      | Observations of meteoric dust from rockets and satellites (survey paper)                             | 382 |

## SESSION 7

CHAIRMAN: V. GUTH

- |     |                  |   |     |
|-----|------------------|---|-----|
| 37. | Ľ. Kresák        | Structure and evolution of meteor streams (survey paper)                  | 391 |
| 38. | R. B. Southworth | Discrimination of stream and sporadic meteors                             | 404 |
| 39. | V. Porubčan      | On the grouping of meteors in meteor streams                              | 405 |
| 40. | A. K. Terenteva  | Investigation of minor meteor streams                                     | 408 |
| 41. | G. Forti         | On the width of the Geminid shower at faint radio magnitude               | 428 |
| 42. | Z. Plavcová      | Radar observations of the Leonids in 1965–66                              | 432 |
| 43. | V. A. Bronšten   | Observations of the Leonid meteor shower in November 1966 in the U.S.S.R. | 440 |

## SESSION 8

CHAIRMAN: P. B. BABADŽANOV

- |     |   |   |     |
|-----|---|---|-----|
| 44. | E. I. Kazimirčak-<br>Polonskaja,<br>N. A. Beljaev,<br>I. S. Astapovič, and<br>A. K. Terenteva | Investigation of perturbed motion of the Leonid meteor stream                       | 449 |
| 45. | V. Guth   | Perturbations of the line of nodes of the Leonids during the years 1866–1966        | 476 |
| 46. | F. L. Whipple   | Origins of meteoritic material (survey paper)                                       | 481 |
| 47. | J. S. Dohnanyi  | Collisional model of asteroids and their debris                                     | 486 |
| 48. | Z. Sekanina   | Existence of meteor showers associated with short-period comets anomalous in motion | 504 |

SESSION 9

49.	Round-table discussion and summary: Meteor physics (Chairman: I. Halliday)	511
50.	Round-table discussion and summary: Meteor dynamics (Chairman: F.L. Whipple)	518