

Úplný seznam vědeckých prací Astronomického ústavu ČSAV,  
vyšlých v roce 1970.

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1. Bull D., Tlamicha A.: The mapping of the Sun at 3,5 mm. *Astronomy and astrophysics* 5 (1970), 102.
2. Bumba V.: Large-scale magnetic field patterns on the Sun (Abstract). Program and abstracts of the Leningrad Symposium on Solar-terrestrial physics, Leningrad, 1970,
3. Bumba V.: Solar magnetic fields and activity phenomena (Abstract). Saopštenja V. Kongres matematičara, fizičara i astronomi Jugoslavije Ohrid, 1970, str. 229.
4. Bumba V.: Concerning the formation of giant regular structures in the solar atmosphere. *Solar Physics* 14 (1970), 80.
5. Bumba V.: Magnetic field measurements. *Transactions of the IAU*, Vol. XIV A (1970), 73.
6. Bumba V.: Fine scale magnetic fields. *Transactions of the IAU*, Vol. XIV A (1970), 78.
7. Hřebík F., Kvíčala J., Křivský L., Olmr. J.: Observations of chromospheric flares at Ondřejov observatory during the years 1964-1968. *BAC* 21 (1970), 170.
8. Hřebík, Kvíčala J., Křivský L., Olmr J.: Observations of chromospheric flares at Ondřejov observatory during the year 1969. *BAC* 21 (1970), 249.
9. Kopecký M.: A contribution to the form of butterfly diagrams in connection with the differential rotation of the Sun. *BAC* 21 (1970), 73.
10. Kopecký M., Kuklin G. V.: On a fine structure of the latitude-time diagram. *Geodätische und geophysikalische Veröffentlichungen*, Reihe II, Heft 13 (1969), 141.
11. Kopecký M.: Electric Conductivity in Photospheres of Stars of Spectral Types F, G and K. *BAC* 21 (1970), 231.
12. Kopecký M.: The relation between the electric conductivity in spot and photosphere. *BAC* 21 (1970), 238.
13. Kopecký M.: Electric conductivity in inhomogeneous photosphere and sunspots. *Solar Physics* 14 (1970), 136.
14. Kopecký M.: Babcock's theory of the 22-years solar cycle and the latitude drift of the sunspot zone. In *Advances in astronomy and astrophysics*, Vol. 7 (1970), p. 57. Academic Press New York and London.

15. Kopecký M.: Difference in magnetohydrodynamic properties of photospheres of dwarf and giant stars of spectral types F, G and K. BAC 21 (1970), 310.
16. Křivský L.: Development and spatial structure of proton flares near the limb and coronal phenomena; III. Cosmic rays flare on Nov. 18. 1968. BAC 21 (1970), 67.
17. Křivský L., Švestka Z.: The solar proton flares of June and November 1968 and February 1969. Space Research X. (1970), p. 817 edit. Donahue et kol., North-Holland Amsterdam.
18. Křivský L.: New Results Concerning the Character of the Cosmic Ray-Flares (Abstract). Abstracts of the Eleventh Internat. Conference on Cosmic Rays, Budapest, 1969, MO-10.
19. Kuklin G. V.: On the Run of the Difference of the Maximal Magnetic Field Strength of Opposite Polarities in Sunspot Groups before and after Proton Flares. BAC 21 (1970), 307.
20. Letfus V., Ivanov V. D., Mandelstam S. L., Tindo J. P.: Non-flare solar X-ray emission than 3 Å. P. N. Lebedev Phys. Inst. Prepr. No 54, Moscow 1970.
21. Letfus V., Anton R., Felske D.: Methoden der Gewinnung und Auswertung von Satellitenmessungen der solaren UV-und Röntgenstrahlung mit besonderer Berücksichtigung von Sonnenauft- und untergängen und der Sonnenfinsternis von 20. 5. 1966. Suppl. Serie des Zentralinstitutes für Solar-terrestrische Physik d. DAW Nr. 1/70, 1970.
22. Obridko V. N.: Some Comments on the Long-Term Forecasts of Proton Flares. BAC 20 (1969), 37.
23. Pintér Š., Olmr J.: Relationship between Soft X-Ray and Radio Emissions in the 20th Solar Cycle. BAC 21 (1970), 373.
24. Švestka Z.: Report of the IAU comission 10 "Solar activity". Transactions of the IAU, Vol. XIV. A (1970), 71.
25. Švestka Z.: Particle Event Forecasting (ed. by V. Mann and D. E. Page), p. 90 (1970).

26. Švestka Z.: Solar Research at Ondřejov Observatory, Solar Physics 12 (1970).
27. Švestka Z.: Solar Discrete Particle Events (Abstract) Program and Abstracts of the Internat. Symposium on Solar-Terrestrial Physics, Leningrad 1970, 53-2.
28. Švestka Z.: The Phase of Particle Acceleration in the Flare Development, Solar Physics 13 (1970).
29. Valníček B.: Optical Observations (Solar activity), Transactions of the IAU, Vol. XIV. A (1970), 72.
30. Ceplecha Z.: Stuttgart Fireball, Event Notification Report No. 1015 (1970), Center for Short-Lived Phenomena;
31. Ceplecha Z.: Mt. Riffler Fireball, Event Notification Report No. 1186 (1970), Center for Short-Lived Phenomena;
32. Ceplecha Z.: Meteors and Meteorites (zpráva 22 komise IAU, Transactions of the IAU XIV A, Reports on Astronomy, Dordrecht (1970), 207.
33. McCrosky R. E., Ceplecha Z.: Fireball and the Physical Theory of Meteors, BAC 21, (1970), 271;
34. Guth V.: Astronomické poznámky ke spisku J.A.Komenského "O vycházení a zapalání přednějších hvězd oblohy csmé", Acta Comeniana, XXIV (1970).
35. Kohoutek L., Grygar J., Plavcová Z., Kvízová J.: Comparison of Radar and Optical Meteor Observations, BAC 21, (1970), 18.
36. Lála P.: Korotkoperiodičeskie vozmuščenija orbit sputnikov po dějstvijem davlenija solněčnogo izlučenija, Nabjuděniye iskusstvennyx sputnikov Zemli, No. 8, Budapest 1969, 175.
37. Matas V.: A note concerning an application of the generalized Huang's model of the restricted four-body problem, BAC 21, (1970), 139.
38. Rajchl J.: A Note on the Recombination in the Interaction Layer, BAC 21 (1970), 262.

39. Sehnal L.: Radiation Pressure Effects in the Motion of Artificial Satellites, Dynamics of Satellites 1969, Springer-Verlag, Berlin Heidelberg New York, 1970.
40. Šimek M.: Radiový výzkum meteorů, Sborník vědecko-technické konference o mikrovlnné technice - Tesla, Opočinek, (1970), 167.
41. Horn J., Kříž S., Plavec M.: Evolution of Close Binaries V. Stationary Models Representing the End of the Phase of Rapid Mass Loss in Case A BAC 21, (1970), 45.
42. Harmanec P.: Evolution of Close Binaries VI. Case B of Mass Exchange in Systems  $4+3.2$  and  $4+1.6 \text{ m}_\odot$ , BAC 21, (1970), 113.
43. Harmanec P.: Evolution of Close Binaries VII. Case B of Mass Exchange in System  $7+5.6 \text{ m}_\odot$ , BAC 21, (1970).
44. Horn J.: One Example of Mass Exchange in Case AB in System  $5+4_\odot$ , Astrophys.&Spa.Sci. 6, (1970) 492.
45. Harmanec P.: Case B of Mass Exchange in Systems  $4+3.2$  and  $4+1.6 \text{ m}_\odot$ , Astrophys.&Spa.Sci. 6, (1970), 497.
46. Horn J.: Diskusní příspěvky na kolokviu "Mass Loss and Evolution in Close Binaries," Proc. IAU Col. 6, (1970) Copenhagen University publ. (ed. by K. Gyldenkerne and R.M. West).
47. Harmanec P.: Diskusní příspěvky na kolokviu "Mass Loss and Evolution in Close Binaries," Proc. IAU Col. 6, (1970), Copenhagen Univ. Publ. (ed. by K. Gyldenkerne and R. M. West).
48. Kříž S.: Mass Transfer in Close Binaries I. Mass Outflow from Contact Components BAC 21, 211.
49. Heintze J. R. W., Grygar J.: Determination of Shape and of the Limb Darkening at Lambda 4230 of the Components of the Eclipsing Binary SZ Camelopardalis BAC 21, (1970), 77.
50. Crampton P., Grygar J., Kohoutek L., Viotti R.: HBV 475: Evolution Stage of a Planetary Nebula?, Astrophys. Letters 6 (1970), 5.

51. Grygar J., Hutchgins J. B.: Nova Serpentis 1970, Circ. IAU, No 2220.
52. Kříž S.: Nova Serpentis 1970, Circ. IAU, No 2225.
53. Smolinski J., Grygar J.: Nova Scuti 1970, Circ. IAU, No 2272.
54. Crampton D., Grygar J.: Emission Object HBV 475, IAU Circular No 2174.
55. Crampton D., Grygar J.: HBV 475, IAU Circular, No 2176
56. Kohoutek L.: Comet Kohoutek (1969 b), IAU Circ. No 2156.
57. Kohoutek L.: Comet Kohoutek (1969 b), IAU Circ. No 2159.
58. Kohoutek L.: Comet Kohoutek (1969 b), IAU Circ. No 2162.
59. Kohoutek L.: Comet Kohoutek (1969 b), IAU Circ. No 2191.
60. Kohoutek L.: Nova Cygni 1970, IAU Circ. No 2254.
61. Kohoutek L.: Comet Kohoutek (1969 b), IAU Circ. No 2256.
62. Kohoutek L.: HBV 475: A New Peculiar Emission Object in Cygnus, IAU Inform. Bull. Var. Stars No 384.
63. Kohoutek L.: Bossen H.: Fotometry of the Peculiar Emission Object HBV 475, Ap. Letters 6 (1970), 157.
64. Kohoutek L.: Hamburg Schmidt-Camera Survey of Faint Planetary Nebulae. Galactic Anticenter Region. BAC 20 (1969), 307.
65. Harwit M.: Alignment of Interstellar Grains by Starlight, BAC 21 (1970), 204.
66. Andrle P.: The Stability Problem of Oscillations Along the Axis of Symetry in a Galaxy, BAC'21 (1971), 132.
67. Alter G., Ruprecht J., Vanýsek V., Balázs B.: Catalogue of Star Clusters and Associations, Second considerably enlarged edition, Akadémiai Kiadó, Budapest, 1970.
68. Webrová L., Ptáček V.: Station de l'heure à Prague, Sér. 5, No. 2 - 8, Praha, Astronomický ústav ČSAV, 1970.

69. Ptáček V.: Předběžné odchylky etalonových kmitočtů, Oběžník č. 193 - 202. Praha, Astronomický ústav ČSAV, 1970.
70. Ptáček V.: Odchylky etalonových kmitočtů OMA, Slaboproudý Obzor, 31, 1970, č. 1 - 12.
71. Ptáček V.: Temps atomique et temps coordonné, Circulaire A1 - A5, Praha, Astronomický ústav ČSAV, 1970.
72. Astronautical Multilingual Dictionary of the IAA (Praha 1970), spolupráce: Guth, Křívský.
73. Link F.: Atmosphère de Vénus d'après les Missions de Venera 5 et Mariner 4 (Abstract). Program, Abstracts of Papers, Thirteenth Plenary Meeting, COSPAR, Leningrad 1967, 185.
74. Plavec M.: Rotation in close binaries, in Stellar rotation (ed. A. Slettebak), D. Reidel Publ. Co., Cordrecht - Holland, 1970, p. 133.
75. Koch H, Plavec M., Wood F. B.: A catalogue of graded photometric studies of close binaries, Publ. Pennsylvania 10 (1970), str. 1.