

Preface	7
----------------------	---

PHYSICS

S. K. Ramatheerthan, J. Peiker, N. M. Crespo, and M. Kozubek, Monitoring Extreme Meteorological and Pollution Events in Prague: A Station Data Based Analysis, f8	9
K. Drastichová, F. Němec, and J. Manninen, Power Line Harmonic Radiation Observed by the Kannuslehto Station, f2	19
A. Kolínská, I. Kolmašová, and O. Santolík, Properties of VHF Electromagnetic Radiation Immediately Following the First Return Strokes, f2	25
V. Linzmayer, F. Němec, O. Santolík, and I. Kolmašová, Lightning-Induced Electron Precipitation Events Observed by DEMETER, f2	32
S. Ijaz, J. Vaverka, J. Šafránková, and Z. Němeček, Do the Antennas of DEMETER Spacecraft Detect Dust Impacts?, f2	38
M. Ghosh, G. Pi, J. Šafránková, and Z. Němeček, Speed of Magnetopause Motion: A New Hypothesis for Using Ion Speed, f2	45
N. Xirogiannopoulou, O. Goncharov, J. Šafránková, and Z. Němeček, Foreshock Structures as a Source of Magnetosheath Jets, f2	52
P. Basuvaraj, F. Němec, C. M. Fowler, L. Regoli, Z. Němeček, and J. Šafránková, Plasma Depletion Events in the Martian Ionosphere: Insights From Conjugate MAVEN and Mars Express Observations, f2	58
J. Mičko, J. Souček, D. Píša, and O. Santolík, Statistical Analysis of Waves and Dust in Solar Orbiter TDS Data, f2	64
B. Park, A. Pitňa, J. Šafránková, and Z. Němeček, Turbulent Energy Dissipation at Fast Interplanetary Shocks: Solar Orbiter and Wind Observations, f2	72
M. Ivánek, I. Ďuran, S. Entler, A. Torres, P. Sládek, M. Šimonovský, P. Turjanica, and J. Řeboun, Development of Magnetic Field Diagnostics for Fusion Reactors, f2	82
J. Palacký and Š. Roučka, Langmuir Probe Sheath Size and Comparison with Plasma Properties, f2	89
Z. Turek, H. Mishra, P. Kudrna, and M. Tichý, Analysis of Curling Probe in Low-pressure Hot Tungsten Cathode System, f2	94
O. E. Hernández Alvarez, S. Rednyk, Š. Roučka, P. Dohnal, R. Plašil, and J. Glosík, Nuclear-Spin Effects with Ammonia Chemistry in Ion Trap Experiment, f2	99
V. Kumar, N. Lausti, and M. Hejduk, Spatially Resolved Ions Imaging at Room Temperature, f2 ..	104

N. Lausti, V. Kumar, and M. Hejduk, Feasibility of 3D-Printed Material for UHV and Microwave Electronics, f2	114
R. N. Mekki, M. Tichý, and Z. Hubička, Plasma Application Technology for Contamination Control in Fusion Devices: A Brief Review, f2	122
I. Naiko, M. Čada, A. Ostapenko, and Z. Hubička, Hybrid HiPIMS + Cathodic Arc Ion Energy Distribution Function Measurement with Carbon Target, f2	131
Š. Jelínek, R. Dudžák, L. Juha, and J. Chalupský, Peak Intensity of $4 \times 18 \text{ W/cm}^2$ Observed in Laser Beam Focus at Prague Asterix Laser System, f2	137
S. Agarwal, S. Singh, P. Devi, M. Krupka, T. Burian, R. Dudzak, J. Dostal, J. Krasa, and L. Juha, Measurements of Plasma Density Using Complex Interferometry in Laser–Matter Interaction, f2	145
P. Devi, S. Singh, S. Agarwal, M. Krupka, R. Dudzak, L. Švandrlík, J. Krása, and L. Juha, Filter Stack Spectrometer for Laser-Plasma Interaction Studies, f2	152
Z. Kuglerová, T. Burian, J. Bulička, L. Juha, M. Ronch, and P. Vagovič, Heating of X-ray Optics by Synchrotron and Free-electron Laser Radiation: A Role of Elemental Composition, f2 ...	157
M. Omezzine Gnioua, K. Dryahina, S. J. Swift, and P. Španěl, A SIFT Study of Reactions of Positive and Negative Ions with Polyfluoroalkyl (PFAS) Molecules in Nitrogen, f2	164
A. Lashkova, S. Parimucha, and O. Ivanova, Dust Environment of Distant Comet C/2015 V1 (Pan-STARRS) Beyond of Snowline, f2	172
M. Brigitte and J. Svoboda, X-ray Polarization of Accreting Black Holes: Cyg X-1 and Swift J1727.8-1613, f1	178
M. Strzałka, R. Filip, and K. Roszak, Qubit-environment Entanglement in Time-dependent Pure Dephasing for Transmon Qubits, f3	185
Á. Martínez and V. Witzany, Beyond Color–Kinematic Duality and the Classical Double Copy, f1	192
S. Muthyala, J. Jurysek, P. Travnicek, and A. Araudo, Gamma-ray Emission from Markarian 421, f1	199
E. Klimešová and M. Žofka, General Relativistic Three Body Problem, f1	207
D. Račko, Early Universe with Anisotropy, f1	214