

Volume 68
 Number 2
 2025
 Pages 107–210

PHYSICS- USPEKHI

English edition of *Uspekhi Fizicheskikh Nauk*
 February 2025 Volume 195 Number 2

*Russian original
 reference*
Usp. Fiz. Nauk
 Vol. 195, pages

*English translation
 reference*
Phys. Usp.
 Vol. 68, pages

Contents

70th ANNIVERSARY OF THE BIRTH OF V.A. RUBAKOV

113	Physics of fundamental interactions (Session-conference of the Nuclear Physics Section of the Physical Sciences Division of the Russian Academy of Sciences, dedicated to the 70th anniversary of the birth of V.A. Rubakov (Presidium of the Russian Academy of Sciences, February 17–21, 2025))	107
REVIEWS OF TOPICAL PROBLEMS		
116	Physics and phenomenology of large extra dimensions E.E. Boos, V.E. Bunichev, I.P. Volobuev, V.O. Egorov, S.I. Keizerov, E.R. Rakhmetov, M.N. Smolyakov	111
154	Precision methods of pulsar timing and polarimetry: results and prospects K.A. Postnov, N.K. Porayko, M.S. Pshirkov	146
172	Nonsingular cosmological scenarios in scalar-tensor theories and their stability V.E. Volkova, S.A. Mironov	163

Continued overleaf

*Russian original
reference
Usp. Fiz. Nauk
Vol. 195, pages*

Contents continued

*English translation
reference
Phys. Usp.
Vol. 68, pages*

PHYSICS OF OUR DAYS

- 188 **Galaxies in the first billion years of the Universe's expansion** 177
O.K. Sil'chenko

METHODOLOGICAL NOTES

- 199 **Spherically symmetric static problem of General Relativity** 187
for a continuum
V.V. Vasiliev, L.V. Fedorov

PERSONALIA

- 217 **Pavel Vladimirovich Logachev (on his 60th birthday)** 203
V.I. Bukhtiyarov, N.A. Vinokurov, R.I. Il'kaev,
N.S. Dikanskii, G.N. Kulipanov, V.A. Lebedev,
E.B. Levichev, N.A. Mezentsev, V.V. Parkhomchuk,
G.N. Rykovanov, A.N. Skrinskii, G.V. Trubnikov
- 219 **In memory of Evgenii Pavlovich Velikhov** 205
V.B. Betelin, Yu.A. D'yakova, V.I. Il'gisonis,
V.V. Kveder, M.V. Kovalchuk, G.Ya. Krasnikov,
V.A. Matveev, O.S. Naraikin, V.Ya. Panchenko,
V.N. Parmon, A.I. Rudskoi, V.A. Sadovnichy

PHYSICS NEWS

- 221 **Physics news on the Internet: February 2025** 208
Yu N Eroshenko