

PREFACE: XXth International Seminar on High Energy Physics “Quarks-2018”

“Quarks-2018” was the jubilee twentieth in the series of seminars taking place biennially since 1980 in various cultural places of Russia (<http://quarks.ru>). It was held in Valday, a small town near Veliky Novgorod, from May 27 to June 2, 2018. This year the Seminar was co-organized by the [Institute for Nuclear Research of the Russian Academy of Sciences](#) (Moscow) and [Joint Institute for Nuclear Research](#) (Dubna). The Seminar gathered around 200 physicists from the leading scientific centers.

The program of the Seminar was fairly broad, with topics covering

- physics beyond the Standard Model (rare processes, Higgs phenomenology, exotica);
- cosmology and astroparticle physics, in particular, axion-like and ultra-light dark matter;
- gravity and its modifications (including Lorentz and NEC violation, ghosts, etc.);
- neutrino physics;
- quantum chromodynamics, strong interactions;
- AdS/CFT phenomenology;
- aspects of mathematical physics;
- selected experimental results.

The organizers and participants of “Quarks-2018” acknowledge support from the organizing institutions, Russian Foundation for Basic Research and Russian Academy of Sciences.

Editors: V.E. Volkova, scientific secretary,
Y.V. Zhezher, scientific secretary,
D.G. Levkov, vice-chairman,
V.A. Rubakov, co-chairman,
V.A. Matveev, co-chairman.