

Prospects for the development of fundamental physics and astronomy (Scientific session of the general meeting of the Physical Sciences Division of the Russian Academy of Sciences, 15 December 2008)

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A scientific session Prospects for the Development of Fundamental Physics and Astronomy was held on 15 December 2008 at the conference hall of the P N Lebedev Physics Institute of the Russian Academy of Sciences (RAS), as part of the general meeting of the Physical Sciences Division of the Russian Academy of Sciences. The following reports were presented at the session:

(1) **Matveev V A** (Institute for Nuclear Research, RAS, Moscow) “Opening address”;

(2) **Kardashev N S** (Astro Space Center, P N Lebedev Physics Institute, RAS, Moscow) “The Universe to 2030 and beyond”;

(3) **Zelenyi L M** (Space Research Institute, RAS, Moscow) “Prospects for the Russian research program on Solar System physical processes”;

(4) **Samsonov V M** (B P Konstantinov Petersburg Nuclear Physics Institute, RAS, Gatchina, Leningrad region) “Prospects for the development of neutron research in Russia”;

(5) **Litvak A G** (Institute of Applied Physics, RAS, Nizhny Novgorod) “High-power microwave electronics: current status and trends”;

(6) **Rudenko O V** (M V Lomonosov Moscow State University, Physics Department, Moscow) “On current and promising applied physical research connected with acoustics”;

(7) **Bondar’ A E** (G I Budker Institute of Nuclear Physics RAS SB, Novosibirsk) “Heavy quarks and tau-leptons: progress and prospects”.

The enlarged and extended paper based on report 3 is given below, pp. 1056–1076.

