

Black holes: theory and observations

(Scientific session of the Physical Sciences Division
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A scientific session of the Physical Sciences Division of the Russian Academy of Sciences (RAS), “Black holes: theory and observations,” was held in the conference hall of the Lebedev Physical Institute, RAS, on 23 December 2015.

The papers collected in this issue were written based on talks given at the session:

(1) **I D Novikov** (Lebedev Physical Institute, Russian Academy of Sciences, Astro Space Center, Moscow; The Niels Bohr International Academy, The Niels Bohr Institute, Copenhagen; National Research Center ‘Kurchatov Institute’, Moscow) “Black holes, wormholes, and time machines”;

(2) **A M Cherepashchuk** (Lomonosov Moscow State University, Sternberg Astronomical Institute, Moscow), “Observing stellar-mass and supermassive black holes”;

(3) **Kardashev N S** (Lebedev Physical Institute, Russian Academy of Sciences, Astro Space Center, Moscow) “Millimetron space project: a tool for researching black holes and wormholes.”

Papers written on the basis of oral presentations 1, 2 are published below.