

Extending the event horizon: multimessenger astronomy

(Scientific session of the Physical Sciences Division
of the Russian Academy of Sciences, 3 April 2019)

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On 3 April 2019, the Physical Sciences Division of the Russian Academy of Science (RAS) held a scientific session titled “Extending the event horizon: multimessenger astronomy” in the Conference Hall of the Lebedev Physical Institute, RAS.

The meeting proceedings include the following presentations:

(1) **Churazov E M** (Space Research Institute, RAS, Moscow; Max Planck Institute for Astrophysics, Garching, Germany) “Galaxy clusters and supermassive black holes”;

(2) **Shakura N I** (Lomonosov Moscow State University, Sternberg Astronomical Institute, Moscow; Kazan Federal University, Kazan) “Accretion processes in astrophysics”;

(3) **Bisikalo D V, Zhilkin A G, Kurbatov E P** (Institute of Astronomy, RAS, Moscow) “Possible electromagnetic manifestations of merging black holes”;

(4) **Postnov K A** (Lomonosov Moscow State University, Sternberg Astronomical Institute, Moscow) “Angular momenta of merging binary black holes”;

(5) **Fabrika S N** (Special Astrophysical Observatory, RAS, Nizhnii Arkhyz, Zelenchukskiy region, Karachai-Cherkessian Republic; Kazan Federal University, Kazan) “On the nature of ultraluminous X-ray sources”;

(6) **Bykov A M** (Ioffe Institute, RAS, St. Petersburg) “Nonthermal emission from accreting transient sources and relativistic supernovae: models and prospects”.

The paper versions of talks 2–5 are presented further on in this issue.