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Asteroids dynamical mass determination:

- developed a new method,
- proved (16) Psyche to be a metallic asteroid, it is included in (16) Psyche space mission proposal approved by NASA

Exoplanets atmospheres erosion:

- the first ever estimate for 54 exoplanet due to XUV radiation of Milky Way's and nearby Super Massive Black Holes

Supermassive black holes 1D & 2D tomography of accretion disks:

- estimate accretion disks dimensions, included in world AGN Black Hole Mass Database

Binary Supermassive black holes candidates for gravitational wave detection

- developed a new method for periodicity detection in quasars light curves