

# **Studies of the strong gravitational fields near supermassive black hole horizons with space missions**

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There are several well known GR tests in a weak gravitational field limit, however, some of these tests could be fitted by alternative theories of gravitation. On the other hand, there is very little information about GR tests in the strong gravitational field. We calculated shapes of shadows (mirages) forming just near BH horizons and discuss a possibility to evaluate inclination angle, spin and charge of black hole. In 2007 the Radioastron space telescope will be launched and it will be a generalization of VLBI technique using the space – ground base. Using this interferometer one could evaluate parameters of the supermassive black holes, in particular parameters of the black hole in the Galactic Centre.