

# XXXV International Workshop on High Energy Physics "From Quarks to Galaxies: Elucidating Dark Sides"

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## **Kerr black holes and massive higher spins**

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The recent discovery of gravitational waves calls for developing new techniques to model dynamics of compact binaries.

One of the approaches is to apply effective field theory where a compact and rotating object is modelled by a massive

higher-spin particle interacting with the gravitational field. Kerr black holes were found to feature the most simple interaction

within this paradigm, which gives a hope to find the complete theory describing dynamics thereof without any input from numerical and other approaches. I will present the recent progress in this direction.

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