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Modeling the outburst of Sgr A*

vendredi 25 mars 2022 14:45 (10 minutes)

For the past two decades, outbursts have been observed from the centre of the Milky Way where a supermassive black hole called Sgr A* is believed to reside. Recent observations have shown that the source of these outbursts is close to the event horizon and have an orbital motion around the black hole. Many scenarios are envisaged to explain this phenomenon without really reaching a consensus. During this presentation I will present two models of outbursts ranging from a general analytical “hot spot” model to a more realistic magnetic reconnection model based on kinetics simulations. We will look at several specific cases to understand the parameters of the model to be able to predict future observations.

Field

Compact objects (supernovae, black holes, neutron stars)

Day constaints

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