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Probing supermassive compact objects properties with space millimeter interferometry

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The planet-size network of millimeter antennas Event Horizon Telescope (EHT) has recently deliv-ered images of the surroundings of the supermassive compact object M87* at the center of the galaxy Messier 87. Such images are crucial to better understand the physics at play in a strong gravitational field environment. They might also allow to probe the extreme relativistic effects on the radiation emitted close to the compact object.

In this talk I will discuss how future extensions of the EHT with space-based antennas might allow us to probe with great precision the properties of the central compact object.

Auteur principal: VINCENT, Frederic (Observatoire de Paris / LESIA)

Orateur: VINCENT, Frederic (Observatoire de Paris / LESIA)

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