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## **Thematic talk: Theoretical studies of gamma-ray binaries as powerful galactic accelerators**

*Tuesday, 6 September 2022 11:10 (35 minutes)*

Gamma-ray binaries, which consist of a compact object and a star, are galactic non-thermal sources that present radiation from radio to gamma rays, and a rich phenomenology largely affected by the system binarity. Of particular interest are gamma-ray binaries hosting massive stars, as they are among the most powerful and efficient galactic persistent accelerators. The most common scenario for these sources is that with a non-accreting pulsar powering the emitting particles, although accretion (and hybrid) scenarios have been also proposed. In this talk, I will provide context for gamma-ray binaries, and use results obtained from semi-analytical and numerical modelling to discuss the phenomenology at very high energies and the potential sites of particle acceleration of these sources.

### **Collaboration**

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