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## **Public Talk: Theoretical models for the prompt emission of Gamma-Ray Bursts in a multi-messenger context**

*Tuesday 10 November 2020 13:10 (30 minutes)*

<https://zoom.us/j/97969954269?pwd=QW1LYXZscjMTG5KUjA2ZGFKQ0lwQT09>

Gamma-Ray Bursts (GRBs) are among the most luminous transients in our universe. Due to the large amounts of energy they release, they have long been discussed as potential sources of Ultra-High-Energy Cosmic Rays (UHECR) - which however is challenged by the absence of neutrino detections in coincidence with GRBs. At the same time, the exact production mechanism of the prompt gamma-ray emission is still under debate. Focussing on the prompt phase, I will briefly review the current status of theoretical models, emphasizing especially the multi-messenger connection.

### **Summary**

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