

## INVITED LECTURE

# Development of future missions for high energy Astrophysics

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In this contribution, I will discuss with the younger audience how do we build a space mission, in a simplified way but starting from the most basic principle. I will navigate through the long process of establishing science requirements, planning the instrumentation and develop a spacecraft concept. I will illustrate some examples of missions being planned for the future, including (but not limited to) THESEUS. Furthermore, I will describe some of the engineering challenges that we normally have to face while moving to the construction phases of the space instrumentation, summarizing the experience of the shutter unit built in Switzerland for the VIS instrument on-board the Euclid mission.

