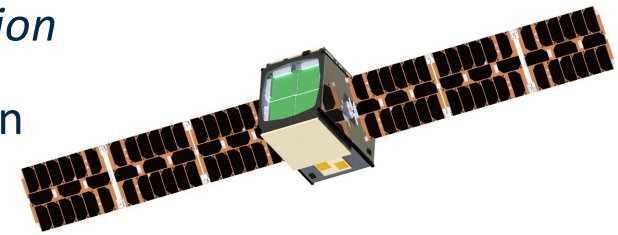




PhD (2025 – 2028) & M2 internship proposal

- Title : *Time-domain astronomy with the COMCUBE-S gamma-ray mission*
- Main objective: To participate in the development of the space mission up to in-orbit demonstration in 2027 - 2028 (Phases B to E), specifying the mission's capabilities for time-domain astronomy
- Work programme: (i) to improve the constellation's **localisation capabilities using artificial intelligence**, (ii) to simulate the detection by COMCUBE-S of different transient sources as a function of their **astrophysical properties**, and (iii) to develop scientific modules in **FINK** for the automated management of alerts generated by the constellation
- Highly formative work: astrophysics of high-energy sources, numerical simulations, laboratory instrumentation, data analysis, development of a space mission
- **CNES funding** (response to our application for a doctoral grant in December)
- Work in **collaboration with ESA** (M2 internship during Phase A)



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