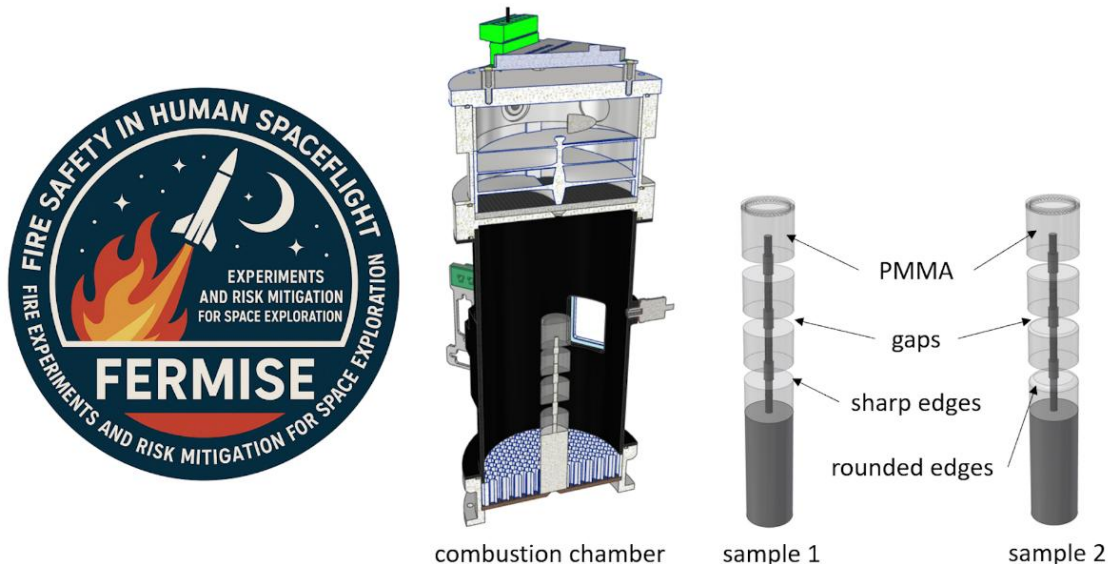


Master thesis

Flame propagation along discrete PMMA rods



Background:

Fire safety is of crucial importance for future exploration missions to the Moon or Mars. It is therefore important to understand how fire spreads under reduced gravity. Usually, only flat samples are considered in material qualification tests, but discrete fuels can also be present in practice. An experiment on a sounding rocket is therefore being planned to investigate this. This master's thesis will focus on the reference experiments on the ground to support this mission.

Work structure:

- Introduction to the topic
- Preparation of the test setup and test samples
- Conducting experiments
- Data analysis
- Selection of suitable experimental conditions for tests under microgravity

We are looking for students with:

- High motivation
- Background in thermodynamics
- Affinity for practical work

We offer:

- Supportive team
- Connection to current space projects
- Environment for free development and contribution of own ideas

If you are interested or have any questions, please contact:

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