

Webinar on Fusion and Plasma for Space Applications

Thursday 16 February 2023

15:30–17:40 CEST / 9:30–11:40 ET

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The purpose of the event is to highlight the mission enabling potential of nuclear fusion and plasma for space applications. The format will be a series of 4 talks (25 min each) with moderate technical level, followed by a 30 min Q&A at the end. Total of 2 hours and 10 minutes.

15:30–15:55 CEST / 9:30–9:55 ET

Aalap Vyas, The University of Alabama in Huntsville (USA)

The potential performance gains of fusion rockets in comparison to other space propulsion technologies

15:55–16:20 CEST / 9:55–10:20 ET

You Setthivoine, Helicity Space (USA)

Helicity Space's fusion propulsion technology now under development

16:20–16:45 CEST / 10:20–10:45 ET

Fatima Ebrahimi, Princeton Plasma Physics Laboratory (USA)

Spacecraft propulsion based on magnetic reconnection

16:45–17:10 CEST / 10:45–11:10 ET

Vasco Guerra, Instituto Superior Técnico (Portugal)

Plasmas for in situ resource utilization on Mars: Fuels, life support, and agriculture

17:10–17:40 CEST / 11:10–11:40 ET

Q&A and Panel Discussion

The types of exotic space missions which become possible with nuclear fusion- and plasma-based technologies. Enabling scientific/technical innovations.

Moderators

Matteo Barbarino, IAEA

Christopher Faranetta, NearStar Fusion Inc.