



nuclear  
nuclear clustering effects  
in astrophysical reactions

# NUCLEAR

## NUclear CLustering Effects in Astrophysical Reactions

### Kick-off Meeting

Edinburgh, May 15<sup>th</sup> 2025

<https://www.erc-nuclear.uk>

# Goals of Today's Meeting

- present scientific objectives and programme of work
- outline the research plan and roles
- introduce team members
- initiate collaborative discussions, exchange ideas and working methods
- plans for future interactions

Zoom link for presenters: <https://zoom.us/j/7821880950>

All Workshop Materials (Presentations and Pictures) will be stores on Indico

<https://indico.ph.ed.ac.uk/event/373>

## ERC-NUCLEAR Kick-off Event

15 May 2025  
CSEC  
Europe/London timezone

- Overview
- Timetable
- Contribution List
- Venue
- Conference Dinner
- Participants

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*Image rights: NASA/ESA/CSA James Webb Space Telescope*

Please send slides (or pdf) to:  
[sopa.events@ed.ac.uk](mailto:sopa.events@ed.ac.uk)

# Welcome and Overview

## ERC-NUCLEAR Kick-off Event - 15 May 2025

09:30	09:45	<b>welcome and introductions</b>	Marialuisa (MLA)
09:45	10:00	ERC Overview	MLA
10:00	10:40	Scientific Goals	Michael + MLA
10:40	11:00	discussion	
11:00	11:30	coffee break	
		<b>Experimental Programme</b>	
11:30	12:00	10B(a,p) and 10B(a,d)	Jamie
12:00	12:30	10B(a,n)	Rhys
12:30	13:00	6,7Li(a,g)	Alessandro
13:00	14:00	Lunch & Photo	
		<b>Computational Programme</b>	
14:00	14:40	First Stars: Stellar Models and Nucleosynthesis	Marco
		<b>Theoretical Programme</b>	
14:50	15:30	Reactions with clusters	Guillaume
15:30	16:00	Coffee Break	
16:00	16:40	R-matrix developments	James
16:40	17:00	Closing Remarks and Next Steps	
19:30		Dinner at Nok's Kitchen by the Castle	