

FuseNet initiatives for students

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FUSENET

The EUROPEAN FUSION EDUCATION NETWORK

WWW.FUSENET.EU
#FUSENET

WHAT DO WE DO?

PROMOTE EDUCATION

- Training
- Discussion
- Nuclear science & Tech.

LINK WITH PARTNERS

- nuclear associations
- fusion industry
- research facilities
- start-ups connection



Big Fusion Projects



Founded in 2010



GOAL:

COORDINATE ACTIVITIES ABOUT FUSION EDUCATION

HOW WE DO IT?

Internship Matchmaking

- Industrial Practices
- Research Projects



Student Mobility

- Summer School
- short term

PhD Event

- one to one presential

Master Event

- virtual event
- strengthening community

Miniworkshops

- specific topics
- in-depth scope

Bachelor Event

- Young talent Attraction

European Fusion Teacher Day

- Science & physics teachers

WHO WE ARE?

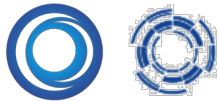
~65 MEMBER INSTITUTIONS

- universities
- RESEARCH CENTRES
- COMPANIES

131-fuse@eu



Eindhoven skyline.



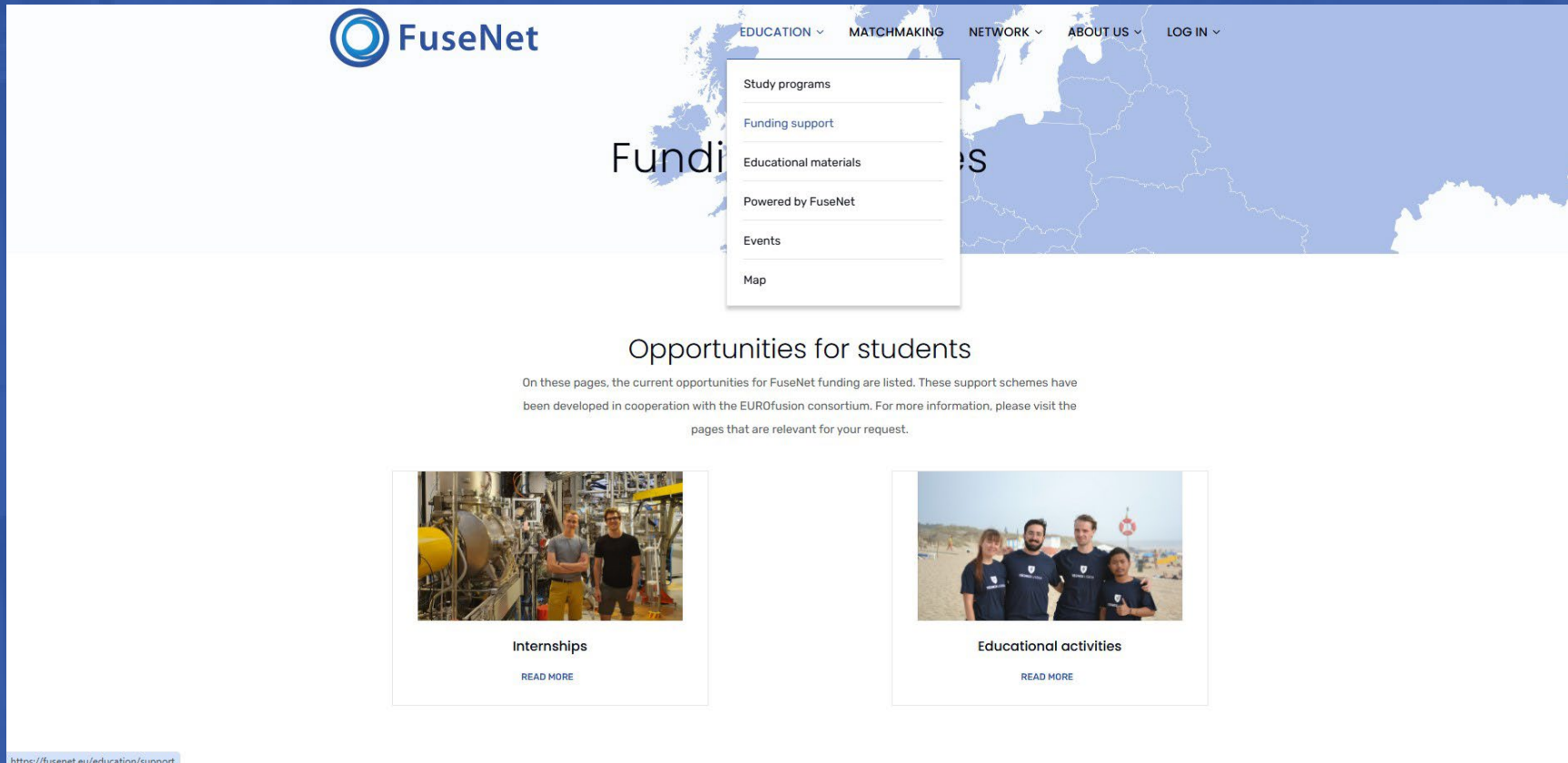
Master Students Mobility Support

- Financial support to do Fusion Internships in Europe and abroad
- Financial support to attend Fusion Educational Events in Europe



Mobility Support Eligibility

- Apply via the FuseNet website (www.fusenet.eu)
- Check Terms and Conditions



The screenshot shows the FuseNet website interface. At the top left is the FuseNet logo. To its right is a navigation menu with links for EDUCATION, MATCHMAKING, NETWORK, ABOUT US, and LOG IN. A dropdown menu is open under EDUCATION, listing: Study programs, Funding support, Educational materials, Powered by FuseNet, Events, and Map. Below the navigation is a large heading 'Funding opportunities' with a background image of a map of Europe. Underneath is the section 'Opportunities for students' with a paragraph of text: 'On these pages, the current opportunities for FuseNet funding are listed. These support schemes have been developed in cooperation with the EUROfusion consortium. For more information, please visit the pages that are relevant for your request.' Below this text are two featured cards. The first card, titled 'Internships', shows two people in a laboratory setting and includes a 'READ MORE' link. The second card, titled 'Educational activities', shows a group of four people on a beach and also includes a 'READ MORE' link. At the bottom left of the screenshot, the URL <https://fusenet.eu/education/support> is visible.

FuseNet Master Thesis Prize

FuseNet Master Thesis Prize Winners 2023



Hannah Lindl
(Max Planck Institute for Plasma Physics - IPP Greifswald)
Quantitative Evaluation of First Signals of the Imaging Heavy Ion Beam Probe at ASDEX Upgrade



Bruno Carl Angelo Spolaore
(Università di Padova-Centro Ricerche Fusione)
Structural behavior of electrical post insulators for the MITICA experiment: numerical models and experimental tests



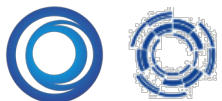
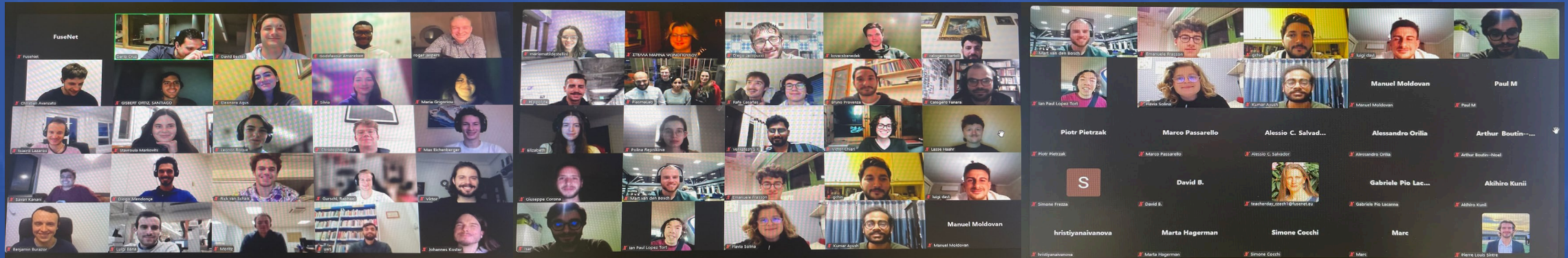
Riccardo Stucchi
(Max Planck Institute for Plasma Physics -IPP Garching)
Non-Maxwellian Distribution Functions: Landau Damping and Beyond



Marco Bugatti (Polytechnic University of Milan)
Experimental Investigation of Thin Tungsten Films as Corrosion Barriers for Liquid Metal Divertor Conceptual Designs

FuseNet Student Event

- Student event for Master/Bachelors (21 November 2024)
- 350 registrations
- Key Note speakers:
 - EUROfusion, Max Planck Institute, IAEA, Oxford University, TU/e
- Panel discussion with:
 - Ignition Computing, Renaissance Fusion, Gauss Fusion and Proxima Fusion
 - Virtual ITER tour
- Student Experiences at:
 - ITER, BSC, A*Star, Plasma Surf, IPP Garching, Carolus Magnus and SOFT



FuseNet Matchmaking Browser

The screenshot displays the FuseNet Matchmaking Browser interface. At the top left is the FuseNet logo. The navigation menu includes EDUCATION, MATCHMAKING, NETWORK, ABOUT US, and LOG IN. The search filters are: Position type (Master internship), Starting after (dd/mm/yyyy), Search term (empty), and Location (empty). A blue SEARCH button is on the right.

The first row of results shows three listings:

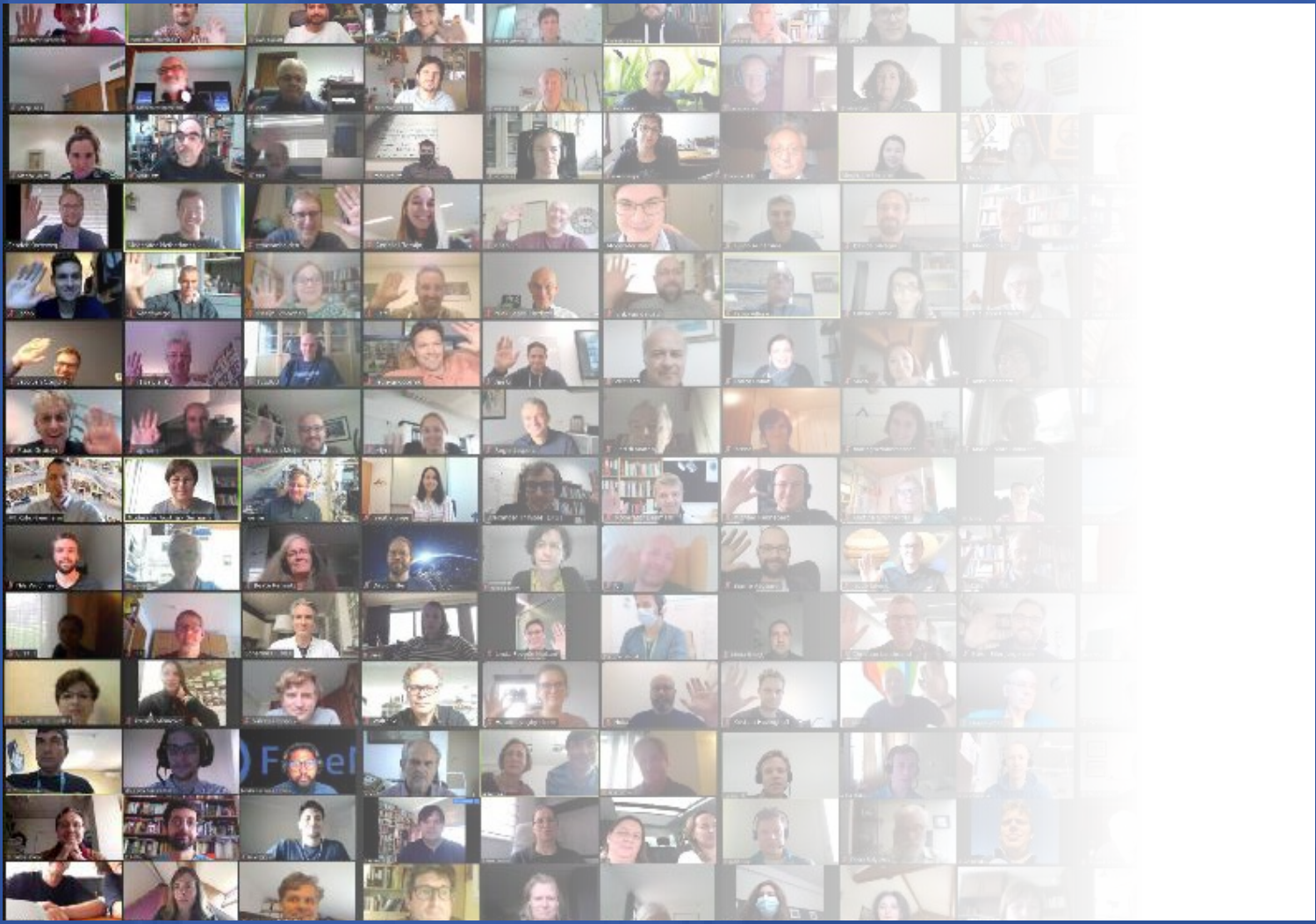
- DIFFER**: Evaluation Of Redeposited Tungsten Microstructure And Evolution Under Transient Loading. Location: Eindhoven, Nederland. Starting Date: No Specific Start Date. Position Type: Master internship.
- DIFFER**: Impact Of Boronization On The ITER First Wall Performance Using Magnum-PSI. Location: Eindhoven, Netherlands. Starting Date: No Specific Start Date. Position Type: Master internship.
- iter**: Multiple Internships At ITER. Location: St. Paul-lez-Durance, France. Starting Date: No Specific Start Date. Position Type: Master internship.

The second row shows three more listings:

- iter**: (Same as the listing above).
- PIIM**: from 3 to 6 months.
- VTT**



FuseNet Teacher Day



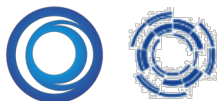
29 European countries
287 registered teachers

Local sessions (local language)
Fusion introduction by local experts

Central webinar with presentations
from ITER and CIEMAT

Presentation FuseNet Educational Materials
Presentation FuseNet Educational Video
Presentation ITER visits to teachers

**Local Organizers Requested for 2025
edition!**



FuseNet Hackathon for Bachelor Students



1st Phase

2-3 people teams

2-3 min video on provided fusion topics

Scientifically accurate

Visually engaging

Participation souvenirs

2nd Phase

Selected winning teams from the 1st phase

Live fusion workshop

Additional prizes

Follow FuseNet

- Follow us on social media
- Visit our website (newsletter) and YouTube channel

