

Between 23-27 September 2024, the TÜBİTAK Research Institute of Fundamental Sciences (TBAE) will organize the "Fusion Reactions at Low Energies and Technological Applications (TBAE FRLE'24)" fall school. This school aims to provide the necessary theoretical foundations and experimental background for students aspiring to pursue postgraduate studies in fusion technologies, as well as for those already actively working in this field who are committed to significantly contribute to global energy solutions. The fall school will cover fundamental theoretical and experimental courses on a range of topics, including nuclear reaction theory at low energies, direct reaction theory, resonance and compound structure contributions, detector applications for fusion reactions, simulation studies, artificial intelligence applications, astrophysical nuclear reactions, plasma physics, and material-dependent fusion technology advancements worldwide. These courses will be given by leading instructors from various universities, both domestic and international. You can apply to the TBAE FRLE'24 Fall School for either Face-to-Face (F2F, limited to 50 people selected from the pool of applicants) or Online participation via Zoom.

### Scientific Committee:

Orkun Hasekioğlu (TBAE)  
Ali İhsan Kılıç (ESOGÜ)  
Konrad Czerski (Szczecin Uni.)  
Natalia Targosz-Slecza (Szczecin Uni.)

### Organization Committee:

Orkun Hasekioğlu (TBAE)  
Ali İhsan Kılıç (ESOGÜ)  
Rasim Ayar (TBAE)  
Ekrem Oğuzhan Angüner (TBAE)  
Erbil Can Artun (TBAE)

### Lecturers:

Ali İhsan Kılıç (ESOGÜ)  
Nihal Büyükçizmeçi (Selçuk Uni.)  
Serkan Akkoyun (Sivas Uni.)  
Halil Gamsızkan (ESTÜ)  
Suat Pat (ESOGÜ)  
İsmail Boztosun (Akdeniz Uni.)  
Osman Alaçayır (TENMAK)  
Natalia Targosz-Slecza (Szczecin Uni.)  
Rakesh Dubey (Szczecin Uni.)  
Alper Nazmi Yüksel (TENMAK)  
David Nagel (The George Washington Uni.)  
Peter Hagelstein (MIT)  
Jirohta Kasagi (Tohoku Uni.)  
Haris Dapo (TARLA)

### Date & Location:

23- 27 September 2024  
TÜBİTAK Gebze Yerleşkesi,  
Temel Bilimler Araştırma Enstitüsü  
Barış Mah. Dr. Zeki Acar Cad.  
No:1 P.K. 21, 41470 Gebze / Kocaeli

### Application Requirements:

M.Sc. & Ph.D. students, post-doctoral researches in related fields are strongly encouraged to apply and will be given priority for the F2F participation.  
- Approval requires a transcript (M.Sc & Ph.D.).

For senior undergraduate students (F2F):

- Minimum number of semesters completed: 6
- Minimum GPA : 2.50
- Proven record of successfully taken courses:  
Nuclear Physics & Modern Physics
- Approval requires a transcript.

Online participation is possible via Zoom.

- No prerequisites needed

Please visit the application web page for further details and school conditions.

### Application Deadline:

**16 September 2024**

### Application Web Page:

<https://tbae.tubitak.gov.tr/en/haber/fall-school-fusion-reactions-low-energies-2024>