

Physics Department

Sakarya University (SAU) Physics Department which began teaching in 1995, has study areas in Atomic and Molecular Physics, General Physics, Solid State Physics, Nuclear Physics and High Energy and Plasma Physics conducted by 19 faculty members and 4 research assistants with doctoral degree.

Successful undergraduate physics students are given the opportunity to receive the second bachelor's degree in the fields like mathematics or chemistry.



Since it was started teaching both undergraduate and master degree are given to students. After 2003, doctoral education in physics on the part of the above-mentioned main branches of science are also provided. Academic studies with domestic groups (Middle East Technical University, Gebze Institute of Technology), as well as abroad with groups (US nuclear physics accelerator center in the state of Virginia Jefferson Laboratory and Old Dominion University and University of Exeter) are still taking place.

Academic staff of the physics department in SAU is growing with each passing day and current number of students (undergraduate, master degree and doctorate) is reached nearly two hundred fifty people.

Contact

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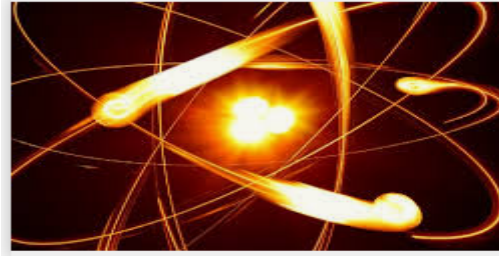
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The Mission of Department of Physics

Our mission is to raise individuals who are vocationally competent and respectful of social values, by offering a modern culture of teaching that produces universal knowledge in the field of physics and that is investigative, participative, sharing, authentic, and protective of ethical values.

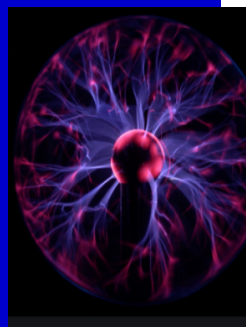
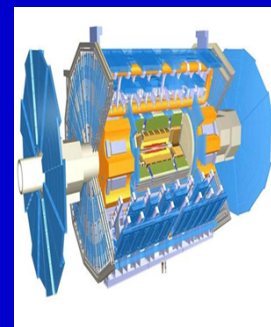
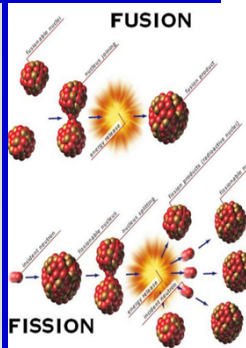
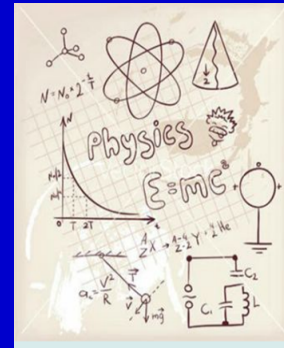
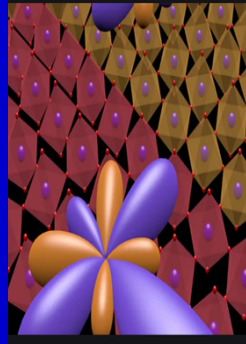
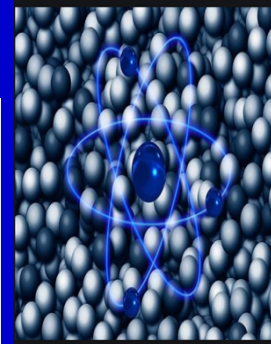


The Vision of Department of Physics

Our vision is to become a department that is known for its quality of education, teaching, and research in Turkey and around the world, and is highly preferred; that has a participative and sharing administration promoting teamwork; that does studies aimed at solving the problems of our country, of our province and region in particular, and pioneers providing university-society cooperation; and that is respectful of universal values and ever-growing.



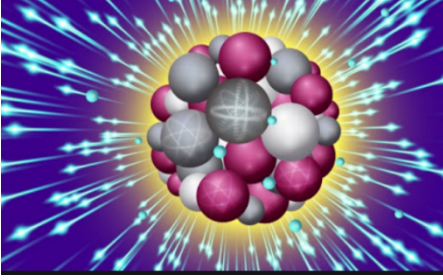
Institute of Naural Science
Physics Department
Graduate Studies



'Physics is a science that is a bridge between the nature and humankind.'

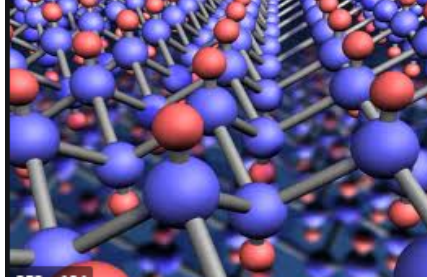


Atomic and Molecular Physics Discipline



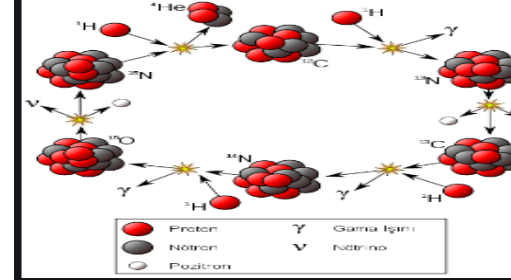
The aim of the atomic and molecular physics discipline is teaching to researchers who make examinations and calculations such as the structure of atoms and molecules, energy levels, wave functions and electromagnetic transitions, atomic model, fine structure and extreme fine structure in atomic spectroscopy, molecular spectrum, ionic bonds, rotation, vibration and electronic transition spectrum, laser.

Solid State Physics Discipline



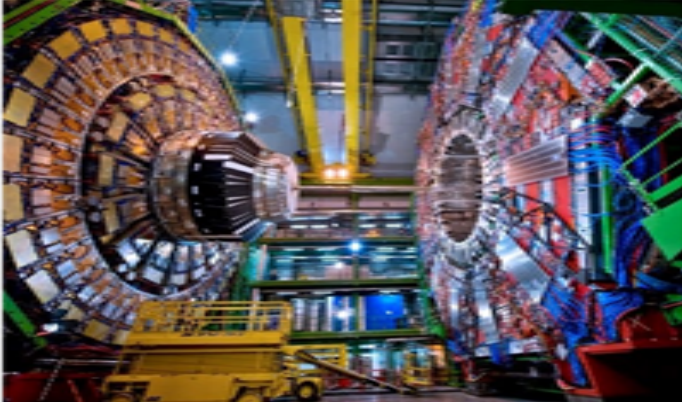
The aim of the solid state physics discipline is teaching to researchers who make examinations and calculations such as the calculate the optical and dielectric properties as well as the structural, electronic, mechanical, elastic, vibrational properties of crystal materials and physical properties of crystals (semiconductivity, superconductivity, hydrogen storage, Kondo effect ... etc.)

Nuclear Physics Discipline



The aim of the atomic and molecular physics discipline is teaching to researchers who make the theoretical calculations of magnetic dipole (M1) transitions, electric dipole (E1) transitions of deformed nuclei with both double-double and odd mass numbers, beta decay in single-mass numbered nuclei and radioactivity research in some environmental indoor and outdoor environments with his graduate education.

High Energy Physics and Plasma Physics Discipline



The aim of the solid state physics discipline is teaching to researchers who calculate information such as charge, momentum, location and mass loss of particles that occur during the reaction and scattered by accelerating atoms or particles in accelerator and detector systems.

General Physics Discipline



The aim of the general physics discipline is teaching to researchers who work interdisciplinary with different application areas of the theories of physics trying to find universal laws.

Staff of the Atomic and Molecular Physics Discipline

Prof. Dr. Leyla ÖZDEMİR
Prof. Dr. Yusuf ATALAY
Prof. Dr. Davut AVCI
Prof. Dr. İbrahim OKUR
Assoc. Prof. Dr. Ömer TAMER
Assoc. Prof. Dr. Adil BAŞOĞLU
Asst. Prof. Dr. Selda ESER

Staff of the Solid State Physics Discipline

Prof. Dr. Hüseyin Murat TÜTÜNCÜ
Assoc. Prof. Dr. Sadık Bağcı
Assoc. Prof. Dr. Ali Çoruh
Asst. Prof. Dr. Metin Aslan
Asst. Prof. Dr. Yusuf KARAKUŞ

Staff of the Nuclear Physics Discipline

Prof. Dr. Recep AKKAYA
Prof. Dr. Mehmet Bektaşoğlu
Prof. Dr. Filiz Ertuğral Yamaç
Assoc. Prof. Dr. Emre Tabar
Assoc. Prof. Dr. Hakan Yakut

Staff of the High Energy Physics and Plasma Physics Discipline

Prof. Dr. Barış Tamer Tonguç
Assoc. Prof. Dr. Ali Serdar ARIKAN

Staff of the General Physics Discipline

Asst. Prof. Dr. Hacı Ahmet YILDIRIM
Asst. Prof. Dr. Nagihan DELİBAŞ