

SOLAR PHYSICS

- Solar energy (thermal energy, kinetic energy, magnetic energy).
- Photosphere (Propagation of radiation, velocity fields and Magnetic elements: small flux tubes, large flux tubes, formation, stability and dissolution of sunspots, Evershed effect).
- Chromosphere and corona (Propagation of radiation, Wave propagation, Structures in the lower chromosphere, Structures in the upper chromosphere, transition region, coronal structures).
- Solar activity (mechanisms of magnetic field evolution, active region formation, active region evolution – magnetic structures, flares and flare models, Coronal Mass Ejections (CME) and CME models, solar wind, solar cycle, solar influence on terrestrial climate).