

INSTITUTE OF PLASMA PHYSICS OF THE ASCR, v. v. i.

Ústav fyziky plazmatu AV ČR, v. v. i. (ÚFP)

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The Institute was founded in 1959 as the Institute of Vacuum Electronics of the Czechoslovak Academy of Sciences and renamed in 1964 to reflect changes in the field of plasma physics research. Since 1999 the Institute has been coordinating Czech participation in the EURATOM S&T programme in fusion (Association EURATOM/IPP.CR). The Optical Development Workshop (ODW) of the Academy of Sciences of the Czech Republic in Turnov merged with the Institute of Plasma Physics as of January 1, 2006. Pursuant to Act No. 341/2005 Coll., the Institute became a public research institution as of January 1, 2007.

The Institute conducts research in the following fields:

- Interaction of electromagnetic waves with magnetised plasmas
- Edge plasma physics in tokamaks
- Plasma diagnostics
- High current capillary discharge
- Generation of shock waves by a plasma discharge in water
- Generation of chemically active non-equilibrium plasma in gases at atmospheric pressure and in liquids
- Generation of equilibrium water-stabilised arc discharges
- Interaction of equilibrium plasma with other states of matter as a basis for plasma technologies
- Plasma gasification and waste disposal
- Materials research connected with plasma utilisation (plasma spraying, materials for plasma devices)
- Generation of hot dense plasma by a sub-nanosecond iodine laser
- Laser plasma as a source of intense coherent and non-coherent x-ray radiation and of multicharged ions
- Development of optical diagnostics including consulting, advisory and expertise services in the field of optomechanical instruments and devices, optical and technical glass

Joint Research Centre

The Institute operates the Joint Research Centre of the Academy Institute of Plasma Physics and the Institute of Physics: PALS (Prague Asterix Laser System).

More detailed information about the organisational structure of the Institute and its research and specialised units can be found at the following URL:

<http://www.ipp.cas.cz>