

of prospective types of lasers with various active media (CO₂-lasers, CO-lasers, eximerlasers and solidstate lasers) and different regim-es of operation (continuous, pulse, pulseperiodic).

The Institute is a recognized leader in the development of mobile technological laser complexes. The MLTK-20 complex built by its specialists by order of the 'Gasprom Gasobezopasnost', Ltd. was first successfully applied in the liquidation of the accident on a gas well. Here the container structure of the Complex provided its prompt delivery to the object under exposure. This work is an example of practical implementation of the results obtained in the research in plasma physics and energy conversion.

A unique experimental base makes it possible to conduct a variety of researches.

Investigations into controlled thermonuclear fusion (CTF) are performed on the largest in Europe and Asia facility called 'Angara-5-1' that is intended to solve scientific and applied problems based on generation of pulses of superhigh electric power; besides, T11M – one of the tokamaks existing in Russia – is used nowadays for performing experiments in support of the Russian program on CTF and ITER (International Thermonuclear Experimental Reactor).

For many years, experimental work on fundamental problems of laser thermonuclear fusion has been under way. At laserplasma installations designed and constructed at the Institute some components of largescale laser systems of CTF are tested.

As a matter of fact, the installations and test beds of the Institute are the centres for the joint research conducted by both Russian and foreign



*Источник ВУФ-излучения (13,5 нм) для
оитографии следующего поколения*



Плазменный ускоритель МК-200