



VABILO

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PHOTON AND LOW ENERGY ELECTRON PHYSICS – experiments on time-resolved laser spectroscopy

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Abstract:

Electron and laser induced spectroscopies are fundamental techniques in atomic and molecular physics for exploring the properties of atomic particles. In Belgrade Laboratory for Atomic Collision Processes exist four electron spectrometers (threshold, for metal atoms, for biomolecules and high resolution one) and system for time resolved laser induced fluorescence and breakdown (TR-LIF and LIBS) spectroscopies. They exploit Nd:YAG Brilliant laser and Optical Parametric Oscillator (OPO, Vibrant 266) with the main detection part being Hamamatsu streak camera (C4334-01). Hamamatsu camera provides picosecond resolution of streak images, option that will be used in future experiments with faster laser while nanosecond or slower time ranges of camera are used for LIBS measurements (up to now In, Ag and Pb targets). Advanced signal and image processing techniques are used for data analysis.

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