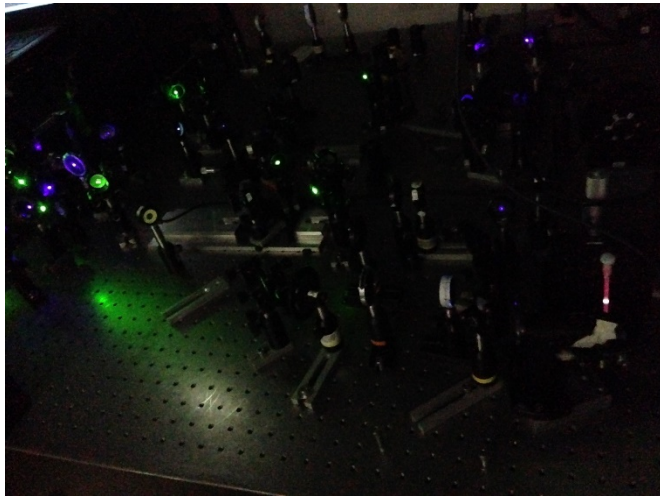


Measuring and using ultra-short laser pulses



- Measure ultrashort laser pulse using autocorrelation method;
- Measure ultrashort laser spectrum and verify if time and frequency are transformed limited
- Use ultrashort laser to generate 2-photon induced luminescence in nanomaterials – verify how the photoluminescence scales with the laser excitation intensity.
- Use transiente photoluminescence method to observe multi-exciton interaction in nanomaterials.