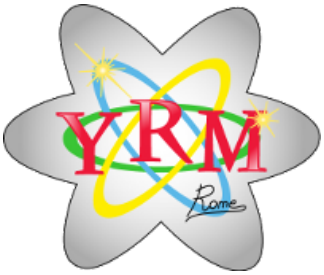

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Ultrafast optical spectroscopy techniques to study new nano-crystals materials for applications in optoelectronics and photonics

In this work I studied the functioning of new materials by means of ultrafast optical spectroscopy techniques. In particular, these new nanomaterials will emit or absorb light efficiently so that they can be used as LED, Lasers, photodetectors, solar cells and other similar applications of new concepts. For the characterization of these materials I have used the following experimental techniques: time-resolved photoluminescence by means streak camera at picoseconds and pump-probe transient absorption at femtosecond.

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