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Technique of optically detected magnetic and cyclotron resonances – basics and applications

Marek Godlewski, Vitaly Yu. Ivanov

Optical detection of magnetic and cyclotron resonances enables not only to study magnetic and cyclotron resonances by observation of light emission modifications, but also allows identification of channels of radiative and nonradiative recombination in a given material. In the present review we shortly describe applications of the two optically detected resonance methods for studies of magneto-optical effects in diluted magnetic semiconductors.