MD.8.	
Title	Excitonic polaritons in ZnAs <sub>2</sub> nanocrystals
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Patent no.	Pending patent application
	The proposed method of high resolution spectroscopy gives the possibility to study the spectral dependencies of ordinary and extraordinary dispersion of refractive index for ZnAs <sub>2</sub> crystals in the region of excitonic transitions. The method permits to estimate the magnitudes of electrons $m_c^* = 0.10m_0$ and holes
Description EN	$m_{v1}^* = 0.89m_0$ effective masses. It was observed the change of holes mass $m_{v1}^*$ from $1.03m_0$ down to $0.55m_0$ with temperature change from 10K up to 230K. The fundamental states and parameters of C and D excitons, which are formed by the V <sub>3</sub> - C <sub>1</sub> and V <sub>4</sub> - C <sub>1</sub> zones, had been determined.
Class no.	5, 10