

Technical University of Moldova

**MD.5.**

**Title**

**Definition of optical parameters of quantum wells using non-destructive methods**

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**Patent no.**

Pending patent

**Description EN**

Description: A digital method was developed to study the polarization dependency of reflectivity spectra of quantum wells. The method permits to determine more accurate the energy of quantum transitions and subsequent calculation of the dependencies of refractive indices and other optical functions. The method can be used to analyze the properties of different quantum layers, in order to determine the spectral dependency of the refractive index in planar waveguides with quantum wells.

Applications: Characterization of the quality of structures with quantum wells.

**Class no.**

5, 10, 14