

Mobility Spectrum Analysis for Electric Charge Carriers in HgCdTe/HgTe/HgCdTe Quantum Well with Inverted Bands Order Close to Topological Transition

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Based on the experimental small-field magnetotransport measurements performed for 7.1 nm-width HgCdTe/HgTe/HgCdTe quantum well with inverted band structure order, we will present results of the mobility spectra analysis in dependence on both the gate voltage (charge carrier concentration) and temperature.

We will discuss these data from the point of view of the band structure picture and possible scattering mechanisms of various types of carries in the system.

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