

Topic	THz spectroscopy of materials
Topic is suitable for	<ul style="list-style-type: none"> • practical works of bachelor students • graduation thesis of bachelor students • practical works of master students • graduation thesis of master students
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Annotation	THz spectroscopy is a rapidly evolving spectroscopy where the frequency range is between microwave and infrared spectroscopy. This technique, for example, measures rotation frequencies of molecules and vibration frequencies of atoms and magnetic moments. Spectrometers operating at low temperature (4K) and below 1K in high magnetic fields and at room temperature are available.
Expectation for candidate	Interest in quantum phenomena.