**Introduction to the low-temperature and strong magnetic field spectroscopy station**

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Since the discovery of graphene in 2004, low-dimensional materials, especially 2D materials, have aroused the researcher’s attention. Lots of rich physical properties have been discovered, like quantum spin Hall effect, 2D magnetism, 2D ferroeclectricity, and 2D superconductivity... The 2D materials can be tuned by gating, light, strain, temperature, and magnetic field. Therefore, we need to build a measurement system which incorporates these tuning abilities into quantum transport measurement. Based on the above experimental requirements, we develop a low-temperature and high magnetic field spectroscopy station. It includes the following four units: 1) low temperature and strong magnetic field unit (He3 Refrigerator +superconducting magnet); 2) infrared spectrum measurement unit; 3) microwave spectrum measurement unit; 4) quantum transport measurement unit. For each He3 refrigerator, we have three probes. The first prob incorporates microwave spectroscopy and quantum transport measurement. The second probe is a quantum transport probe with the rotator. The third one is a conventional transport probe. Our research topics mainly focus on novel quantum states and low-energy excitations in low-dimensional systems, including cyclotron resonance, quantum oscillation, different types of Hall effect, non-trivial superconductivity, and so on.