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【258】 Vienna Package for TensErLEED II: A Versatile Setup for Acquisition of LEED I(V) Data

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Collecting quantitative low-energy electron diffraction [LEED I(V)] data normally requires expensive acquisition systems that complement LEED control electronics. We design a fully functional setup, based on an Arduino controller, combining easily and cheaply available parts as part of the “Vienna Package for TensErLEED”(ViPerLEED). In addition to standard LEED I(V) signals, the design is expandable to suit the user needs. We add to the hardware design a customizable, open-source control software, which requires minimal user input. Using our own system, we collect data on well-studied, single-crystalline metal and oxide surfaces to verify the functionality and test the accuracy of the setup.

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