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Quantum experiments with a Transmission electron microscope

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We will briefly review possibilities of experiments exploring quantum aspects of the electron field interaction using structured electron beam.

Among these we can mention the vertical version of the Aharonov Bohm effect and the light electron coupling through Landau states.

Moreover we will illustrate the use of the orbital angular momentum (OAM) sorter and electrostatic elements in order to control single OAM quantum state.

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