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Monday, March 25, 2024, 16:00

On the microscopic foundations of the relativistic Vlasov-Maxwell equations

University of Tübingen, Mathematics Department, C3N14 and via Zoom:
https://zoom.us/j/94274376976?pwd=YVBvU2tNMTBXSGxGYVg4eUoyV1ZiQT09
Meeting-ID: 942 7437 6976
Kenncode: 929851

Abstract:

The talk reviews the state of affairs in the mathematically rigorous foundations of the special-relativistic Vlasov-Maxwell equations. The progress is made possible by a recent formulation of a well-posed Lorentz co-variant initial value problem for the joint evolution of charged point particles and their electromagnetic Maxwell fields in a Bopp–Land´e–Thomas–Podolsky (BLTP) vacuum.