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**Global strong solution and incompressible Navier-Stokes-Fourier-Poisson limit of the Vlasov-Poisson-Boltzmann system.** (English) Zbl 1479.35595

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- 35Q20 Boltzmann equations
- 35Q83 Vlasov equations
- 35D35 Strong solutions to PDEs
- 76N10 Existence, uniqueness, and regularity theory for compressible fluids and gas dynamics
- 78A25 Electromagnetic theory (general)

**Keywords:**

hydrodynamic limit; Vlasov-Poisson-Boltzmann system; Navier-Stokes-Fourier-Poisson system; global solution

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