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Ab-initio **scattering-state based method for calculating transport in nanostructures** IVAN P. DAYKOV, TOMÁS A. ARIAS, Department of Physics, Cornell University, Ithaca, NY, 14853 — We will present an *ab-initio* computational method for calculating the transport properties of nanostructures. In contrast to the commonly employed scattering-state approaches it directly utilizes supercells with periodic boundary conditions, which makes it ideal for use with planewave density functional codes.

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