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## Ab Initio Approach to Ultrafast Spectroscopy with Stochastic Time-Dependent Density Functional Theory and Gauge-Including Projector Augmented Wave Method

*Wednesday 3 July 2019 18:00 (2 hours)*

We extend the gauge-including projector augmented wave method to the case of time-dependent electric fields of arbitrary strength and present its implementation in the VASP code. Interaction with an environment is described within the stochastic approach.

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