

## **The use of Gamma-convergence in the study of asymptotic problems**

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Gamma-convergence is a commonly recognized tool for the description of complex variational problems involving small parameters (homogenization, phase transitions, atomistic systems, etc.). Anyhow, its application is sometimes criticized (besides not giving correct information for local minimizers) either for not giving an accurate description with respect to varying parameters (e.g., boundary conditions, applied forces, etc.) or simply not providing the same approximate theories that are used by practitioners. I will present some proposal on how to use Gamma-convergence to fit (some of) those requirements. Joint work with Lev Truskinovsky.