

Abstract Submitted  
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**ESTEST: A Framework for the Verification and Validation of Electronic Structure Codes**<sup>1</sup> GARY YUAN, FRANCOIS GYGI, University of California Davis, Davis, CA95616 — ESTEST is a verification and validation (V&V) framework for electronic structure codes that supports Qbox, Quantum Espresso, ABINIT, the Exciting Code and plans support for many more. We discuss various approaches to the electronic structure V&V problem implemented in ESTEST, that are related to parsing, formats, data management, search, comparison and analyses. Additionally, an early experiment in the distribution of V&V ESTEST servers among the electronic structure community will be presented. [1] G. Yuan and F. Gygi, Computational Science and Discovery (2010) (in press).

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