

# Verification of a Configuration Space Method for Evaluating the All-Orders Linear Kinetic Plasma Response to RF Power

- The challenges presented to fusion theory, especially in the edge region of Tokamaks, are increasingly dependent on the details.
- Combined with the imminent availability of exascale computing platforms, an opportunity is presented use these resources to help progress fusion by tackling the issues of the edge at the required fidelity.
- This paper presents progress towards building one of the computational tools fusion will need to fully leverage the exascale computing platforms when they arrive.