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A Stochastic Multiple Mapping Conditioning Computational Model in OpenFOAM for Turbulent Combustion

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Highlights

- Stochastic MMC-LES and MMC-RANS are implemented into OpenFOAM.
- Code architecture is based on layered template classes and abstract submodels.
- Mass consistency of the hybrid Eulerian and Lagrangian schemes is demonstrated.
- $\bullet\,$ Numerical convergence with increasing stochastic particles is demonstrated.
- Numerical convergence with increasing aerosol species sections is demonstrated.

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