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Hybrid Fourier pseudospectral / discontinuous Galerkin time-domain method for wave propagation

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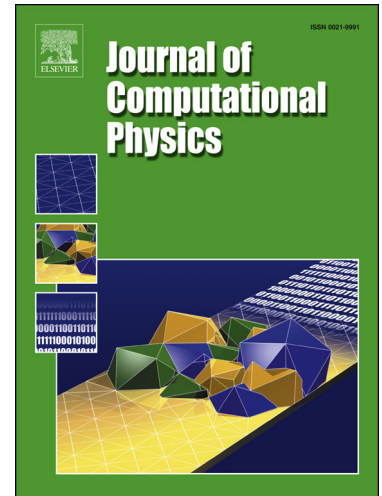
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Highlights

- A method for wave propagation in fluid domains with complex geometries is presented
- The method combines Fourier PSTD in the bulk of the domain and DG at boundaries
- The main application of interest is atmospheric sound propagation in cities
- The method shows no significant additional error compare with a Fourier PSTD solver
- No indication of instability in long-time calculations has been detected

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