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A quadrature simplification method for fast implicit discontinuous Galerkin schemes

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## ACCEPTED MANUSCRIPT

## Highlights

- A quadrature simplification method for fast implicit DG schemes is proposed.
- The proposed method utilizes the orthogonal properties of basis functions.
- Substantially fast computations are realized without any major deterioration.
- Performance assessments are conducted on 2D structured and 3D unstructured meshes.

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