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The application of a high-order discontinuous Galerkin time-domain method for the computation of electromagnetic resonant modes

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**Highlights**

- A high-order discontinuous time-domain method is presented for computing resonant frequencies and modes.
- The method incorporates the exact boundary representation of the computational domain given by a CAD model.
- The results demonstrates that the rate of convergence can be affected by an inaccurate geometric description.
- The method is able to provide a broad band of resonant frequencies for two and three dimensional cavities.

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