

## **Higher order finite element and discontinuous Galerkin methods for wave propagation phenomena**

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This last decade, higher order FEM and DGM were developed and applied to wave propagation phenomena in different domains (acoustics, elastodynamics, electromagnetism, aero-acoustics...). In FEM, mass-lumped techniques enabled to realize a dramatical gain of CPU time for wave equations in time domain. In particular, spectral element methods provided a gain in time and storage. On the other hand, DGM revealed to be particularly well suited to such equations because of their natural mass-lumping. The aim of this minisymposium is to compare different approaches in these techniques and to evaluate their performance.