

## **HIGH ORDER METHODS FOR TIME-DEPENDENT PROBLEMS**

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### **MINISYMPOSIUM**

Both hyperbolic and parabolic time-dependent problems have been of great interest in the applied mathematics and engineering communities as they cover a wide range of applications. To improve accuracy both in space and time, several high order methods have been developed in the recent years.

However, with today's exascale computing architectures we also aim to solve these problems effectively, not just accurately. Many methods have achieved great success in parallelization, such as parallel-in-time and space-time methods, among many others.

In this minisymposium we aim to present the state-of-the-art theoretical and application based results, and bring the members of this community closer to each other. Methods of interest include, but are not limited to, space-time discontinuous Galerkin, space-time finite element, implicit-explicit methods, asynchronous, parallel-in-time and adaptive mesh refinement.

Presentations regarding exascale or highly parallel implementations (such as application of GPU platforms) are also welcomed.