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High Order schemes for hyperbolic conservation laws

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Inhaltsangabe:
For solving time-dependent convection-dominated partial differential equations (PDEs), which arise frequently in computational physics, high order numerical methods, including finite difference, finite volume, finite element and spectral methods, have been undergoing rapid developments over the past decades. In this lecture we give a brief overview and describe our contributions.

We will discuss new high order schemes on unstructured tetrahedral meshes that are applicable to a rather general class of problems in general geometries, thus opening a wide range of possible applications in science and engineering.