

High order biorthogonal functions for $H(\text{div})$ on simplices

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In this talk, we will present high order finite element discretizations using sparsity optimized basis functions. The aim of this contribution is to present biorthogonal functions to the above mentioned basis. We will discuss hexahedral and simplicial elements as well as situations on H_1 , $H(\text{div})$ and $H(\text{Curl})$. This work is a collaboration with T. Haubold (Paris) and J. Schoeberl (TU Vienna).

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