



# Applied Mathematics

## McGill Applied Mathematics Seminar

Feb. 26, 2007, 2:35 pm Monday  
At McGill, Burnside Hall 1205

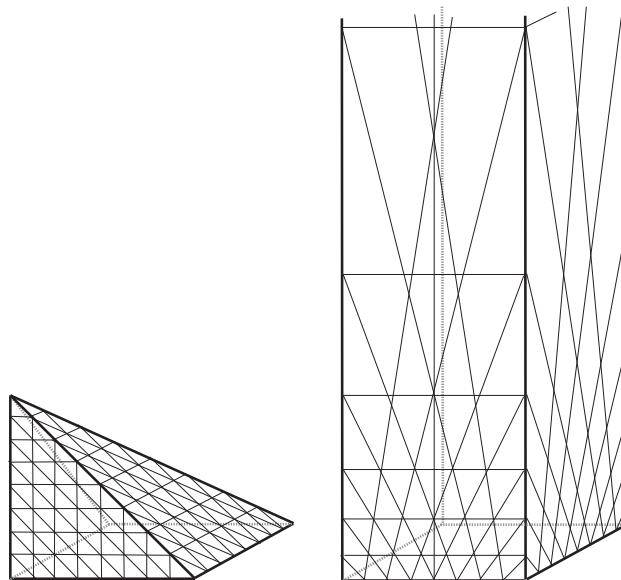
“Higher order finite elements on pyramids.”

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*Coffee and refreshments will be served after the seminar*

### Abstract:

High-order tetrahedral and hexahedral finite elements for the de Rham complex are well known. In this talk, we present a construction of high-order finite elements on a pyramids. Our elements generalise the first order pyramidal elements of Gradinaru and Hiptmair and are compatible with the Nedelec hexahedral and tetrahedral elements through their square and triangular face(s) respectively.



Elements on a finite pyramid, and on the infinite reference element.