



PIMS / AMI Seminar

**Friday, August 15, 2014
3:00 p.m.
CAB 657**

**“On the norms of the hyperinterpolation
operators on the d -dimensional cube and the
unit ball”**

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Abstract

Hyperinterpolation of multivariate continuous functions over compact subsets or manifolds was originally introduced by I. H. Sloan. It uses the Fourier orthogonal projection of a function which can be expressed in the form of integrals, but approximates the integrals used in the expansion by means of a positive cubature formula. In this talk, we shall give a review of hyperinterpolation and then discuss the norms of the hyperinterpolation operators on the d -dimensional cube and the unit ball.

Refreshments will be served in CAB 649 at 2:30 p.m.