

Séminaire d'analyse

Département de mathématiques et de statistique
Université Laval

Conférencier: Iurie Caraus
Moldova State University

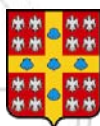
Titre: Approximative Solution of Singular
Integro- Differential Equation

Date et heure: Le vendredi 8 avril, 2011
de 10h30 à 11h20

Lieu: Pavillon Pouliot 2504

Résumé: We have elaborated the numerical schemes of collocation method and mechanical quadrature method for approximate solution of singular integro- differential equations with kernels of Cauchy type. The equations are defined on the arbitrary smooth closed contour of complex plane. Theoretical background of collocation method and mechanical quadrature method has been obtained in classical Holder spaces.

Responsable: Javad Mashreghi



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$$\frac{d}{dt} \int_a^x f(x,t) dx = \frac{1}{x-a} \int_a^x \left[(x-a) \frac{\partial f}{\partial x} + (t-a) \frac{\partial f}{\partial t} + f \right] dt.$$