



Pacific Institute for the
Mathematical Sciences



PIMS Lethbridge Analysis Seminar Series

XIAOLONG QIN

*Institute of Fundamental and Frontier Sciences
University of Electronic Science and Technology
of China (Chengdu, China)*

Title:

Iterative processes for solutions of nonlinear operators equations

Abstract:

In this talk, we review some classic iterative processes: Mann iterative process, Ishikawa iterative process, Halpern iterative process, Viscosity iterative process, hybrid projection iterative process, for solutions of operator equations involving non-expansive operators, strictly pseudo-contractive operators, monotone operators, accretive operators. We present a splitting iterative process for the sum of two accretive operators. Convergence theorems are established in the framework of Banach spaces. Some applications in convex optimization problems are also considered.

Wednesday—March 29, 2017

12:00 to 12:50 p.m.

UHall D633