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The Hong Kong University of Science and Technology

Department of Mathematics

Seminar on Applied Mathematics

Weak Galerkin Finite Element Scheme and Its Applications

by

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Abstract

The weak Galerkin (WG) finite element method is a newly developed and efficient numerical technique for solving partial differential equations (PDEs). It was first introduced and analyzed for second order elliptic equations and further applied to several other model equations, such as the Brinkman equations, the eigenvalue problem of PDEs to demonstrate its power and efficiency as an emerging new numerical method. This talk introduces some progress on the WG scheme, which includes the applications on Brinkman problems, etc.

Date: **Thursday, 9 August 2018**

Time: **10:30a.m. – 11:30a.m.**

Venue: **Room 5504, Academic Buildings (Lifts 25, 26), HKUST**

All are welcome!