



**The Hong Kong Polytechnic University
Department of Applied Mathematics**

Colloquium

**Pre-asymptotic error analysis of the HDG method for
Helmholtz equation with high wave number**

By

**Prof. Wu Haijun
Nanjing University**

Abstract

This talk addresses several aspects of the linear hybridizable discontinuous Galerkin method (HDG) for the Helmholtz equation with impedance boundary condition at high frequency, including pre-asymptotic error estimates, postprocessing, and dispersion analysis.

Bibliography

Professor Wu Haijun got his Bachelor, Master and PhD degrees from Jilin University. He was a Postdoc in Chinese Academy of Sciences during 2000-2002. He joined Nanjing University since 2003 and become a Full Professor in 2006. Professor Wu has won the National Outstanding Research Scholar Fund (国家杰出青年基金), New Century Talents Award of the Ministry of Education (教育部新世纪人才), and Jiangsu Outstanding Achievement Award (江苏省数学杰出成就奖). Professor Wu's main research areas are adaptive finite element method, multigrid method, numerical method of wave scattering and interface problem.

Date: 30 November, 2020 (Monday)

Time: 15:00-16:00 (Hong Kong Standard Time GMT +8)

Zoom Meeting ID: 97302996817

Passcode: 20201130

Speaker: Prof. Wu Haijun, Nanjing University

Host: Dr. Li Buyang, The Hong Kong Polytechnic University

Click to join: <https://polyu.zoom.us/j/97302996817>



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***** ALL ARE WELCOME *****

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