



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

## Colloquium

# **Unitary Algorithm**

By

#### Prof. Aihui ZHOU Academy of Mathematics and Systems Science **Chinese Academy of Sciences**

### Abstract

To obtain convergent numerical approximations without using any orthogonalization operation is of great importance in electronic structure calculations. In this presentation, we introduce a class of

iteration schemes for the discretized Kohn-Sham Density Functional The iterative approximations are guaranteed to converge to the Kohn-Sham ort any orthogonalization when the initial orbitals are orthogonal.



**Click to join** 

Date: 11 March 2022 (Thursday) Time: 10:00-11:00 (Hong Kong Standard Time GMT +8) Venue: Online Talk via Zoom (Meeting ID: 917 1897 4374) Speaker: Prof. Aihui Zhou, Academy of Mathematics and Systems Science, **Chinese Academy of Sciences** Host: Prof. Zhonghua Qiao, The Hong Kong Polytechnic University Click to join: https://polyu.zoom.us/j/91718974374?pwd=YTRjZzlMaWZRLzZwNktBN0Z5LzNZUT09

#### \* \* \* **ALL ARE WELCOME**

For enrolment, please send your name and email to wai-yan.moon@polyu.edu.hk on or before 10 March 2022