



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PDE

**Deformation of ASD four-manifolds and a nonlinear PDE
from spectral theory**

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Abstract

In this talk I will give a brief overview of the deformation theory for anti-self-dual 4-manifolds, and introduce a geometric differential operator that plays a key role. I will then report on some recent progress toward understanding when the cokernel of this operator vanishes, and the connection to a nonlinear PDE from spectral geometry. This is joint work with Rod Gover.

Date: 8 September 2023 (Friday)

Time: 9:30am

Zoom Meeting: <https://hkust.zoom.us/j/95293455527> (Passcode: 002473)

All are Welcome!