## 世纪物理情·系列讲座

# Non-Hermiticity and Curved Spaces: Different Sides of the Same Coin

#### 【摘要】

I will discuss an unprecedented connection between two active research directions that appeared distinct. A recently unfolded duality between non-Hermiticity and curved spaces provides a natural explanation for peculiar non-Hermitian phenomena including but not limited to non-orthogonal eigenstates, non-Hermitian skin effects and the sensitivity to boundary conditions. Meanwhile, this duality offers experimentalists a new means to explore curved spaces without physical distortion.

### 【报告人简介】



Qi Zhou is a professor in the Department of Physics and Astronomy at Purdue University. His research interests include synthetic gauge fields for ultracold



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atoms, strongly interacting bosons and fermions, quantum nonequilibrium dynamics, and connections between few-body and many-body physics. Qi Zhou received his Ph.D. degree from The Ohio State University and his B.S. degree from Tsinghua University, China.

#### 主办单位:清华大学高等研究院