Department of Mathematics
The Chinese University of Hong Kong

數學系
香港中文大學

Seminar

On the Sets of Complex Numbers with Specific Approximation Order

Professor Ying Xiong

Department of Mathematics
South China University of Technology

Abstract: In this talk, we introduce some metric results on the Diophantine approximation of complex numbers. More precisely, let ψ be a positive non-increasing function that tends to zero at infinity, we obtain the Hausdorff and packing dimensions of the sets of ψ-well approximable and ψ-exact approximable complex numbers. These results can be viewed as the analogues of the classical Jarník Theorem in the real case.

Date: 29 July 2022 (Friday)
Time: 2:30 pm – 3:30 pm
Venue: Room 222, Lady Shaw Building,
              The Chinese University of Hong Kong, Shatin

All are Welcome!