

## Colloquium

### The filtration of Nehari manifold and its application in some nonlocal problems

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地 點：應用數學系多媒體教室 (理 408 室)

#### 摘 要：

Schrodinger-Poisson system, also known as the nonlinear Schrodinger-Maxwell equations, is suggested as a model describing the interaction of a charged particle with the electrostatic field in quantum mechanics. In this talk, by introducing a new set, which is regarded as the filtration of the Nehari manifold, and together with variational methods, we are concerned with the existence of positive solution for a class of non-autonomous Schrodinger-Poisson systems without any symmetry assumptions. Furthermore, the existence of ground state solution is also obtained.