

## 東工大数理解析セミナー

18:00 -- 18:50

Yong-Li Tang 氏 (Feng Chia University)

Stationary solitons of a three-wave model generated by Type II second-harmonic generation in quadratic media

In this talk, we prove the uniqueness of stationary standing wave solutions of an optical model generated by Type II Second Harmonic Generation (SHG) with behaviors tending to zero at infinity under certain conditions on parameters. In addition, we provide the same issues for the Dirichlet boundary value problems on the ball centered at the origin. A classification of solutions for radial case is also established.