

## ***A MATHEMATICAL PERSPECTIVE ON SCATTERING RESONANCES THROUGH SUB-WAVELENGTH HOLES***

**Speaker: Junshan Lin**  
**Auburn University**

**Time: Fri, May. 17, 11:00-12:00**

**Venue: Zoom: 618-038-6257 Passcode : SCMS**

**Abstract:** The so-called extraordinary optical transmission (EOT) through metallic nanoholes has triggered extensive research in modern plasmonics and their applications in bio-sensing, imaging, etc. In this talk, I will present quantitative mathematical theory to understand scattering resonances that induce the EOT phenomenon in a series of metallic structures with sub-wavelength holes.