

YONSEI Math Colloquium

Mathematical Analysis and Design of Meta-materials

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Meta-materials, which are materials made of artificially designed atoms, is an emerging field between physics and materials science. Meta-materials exhibit many exotic phenomena such as negative refractive index, super-focusing and invisibility cloaks. The rational design of meta-materials requires to solve interesting problems involving PDEs, spectral geometry, operator theory and topology. In this talk, we discuss our recent works on surface plasmons, acoustic bubbles and their applications to meta-materials.

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**** [온라인 강연] 접속 방법은 추후 별도로 공지.**