Abstract: In this talk I will introduce concepts of broken symmetry and superconductivity; describe the waves of superconductivity and how we can use them to test for new condensate phases with non-uniform order parameter. Using this as an example, I will attempt to highlight some connections between physics of superfluid condensates and plasma-like features of metals, light propagation in matter, gravity and Higgs mechanism, including some medieval references by the end.

Host: Jiong Qiu
Refreshments 3:45 p.m. EPS 2nd Floor Atrium