

$$\frac{\partial L}{\partial y} - \frac{d}{dx} \frac{\partial L}{\partial y'} = 0$$

$$\mathcal{L} = -\frac{1}{4}F_{\mu\nu}F^{\mu\nu} + i\bar{\psi}\not{D}\psi + h.c. + \bar{\psi}_i y_{ij} \psi_j \phi + h.c. + |D_\mu \phi|^2 - V(\phi)$$

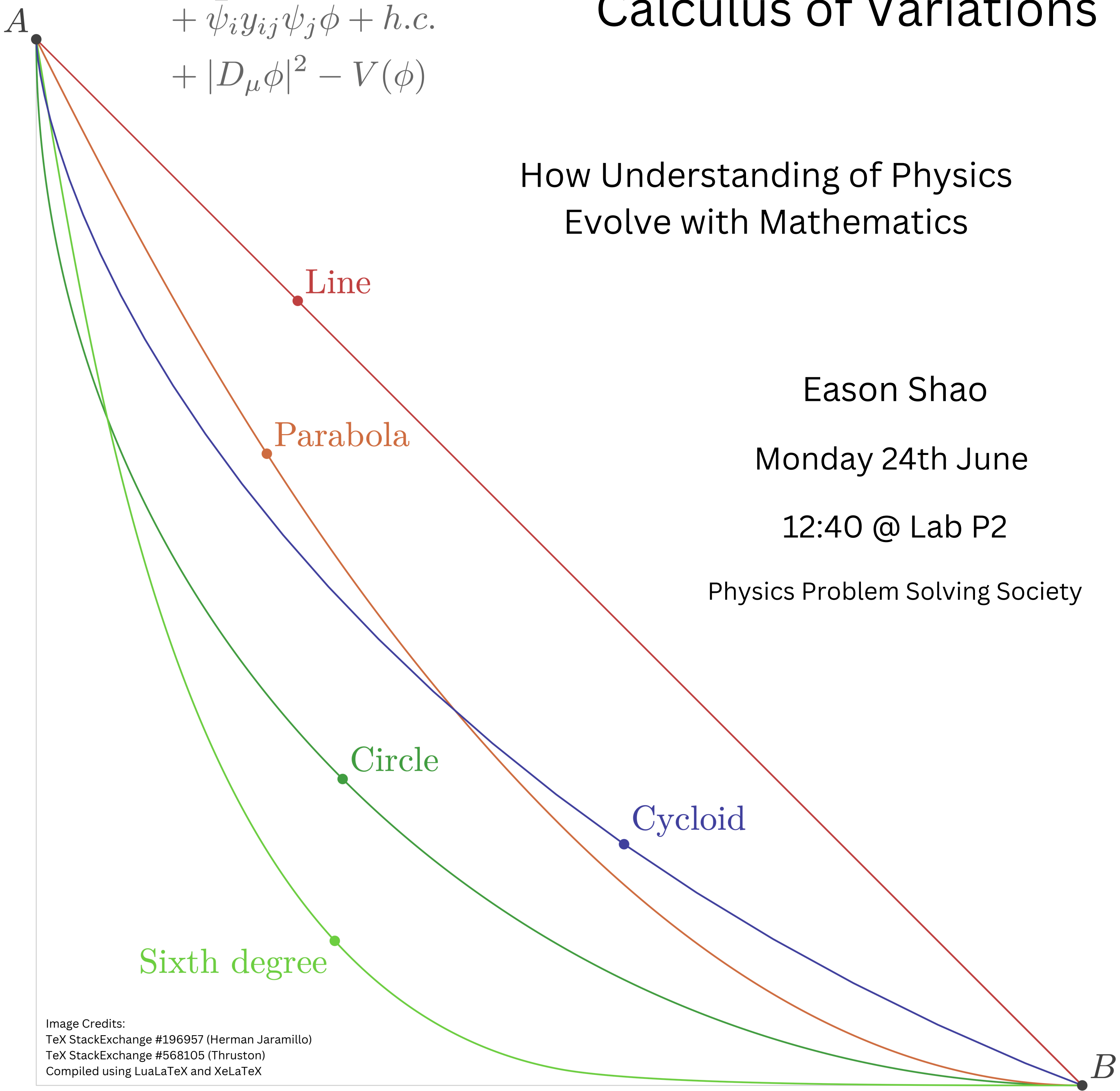
From the

Brachistochrone Curve

to

Calculus of Variations

How Understanding of Physics
Evolve with Mathematics



Eason Shao

Monday 24th June

12:40 @ Lab P2

Physics Problem Solving Society