

# Act 2

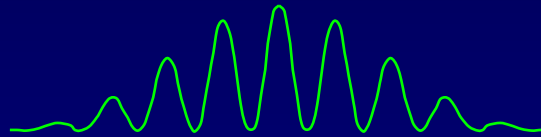
Let's modify the 2-slit experiment a bit. Recall that EM waves can be polarized – electric field in the vertical or horizontal directions.

Send in unpolarized photons.

Cover the upper slit with a vertical polarizer and cover the lower slit with a horizontal polarizer

Now the resulting pattern will be:

a)  $|\psi_1 + \psi_2|^2$



b)  $|\psi_1|^2 + |\psi_2|^2$

