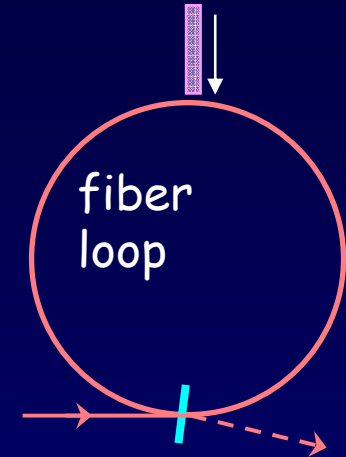# FYI: Modern Applications in Navigation

Consider the following "Sagnac" ["sahn-yack"]
   interferometer. Here the two possible paths
   are the clockwise and counter-clockwise
   circuits around the fiber loop.

1. If we insert an extra piece of glass as shown,
how does the relative path length change?

fiber
loop

2. How could we change the relative path-length difference, and
   thereby change how much light exits the bottom port?