S_1 B S_2

E'

E

$\frac{\lambda}{2}$

D

L

screen

A   N   A   N   A   N   A   N   A   N   A

X

A = antinode (bright)
N = node (dark)

N is a node if path length S_1N is $n\frac{1}{2}\lambda$ longer than S_2N, where n is an integer.