The Infamous Optical Lever Factor of Two

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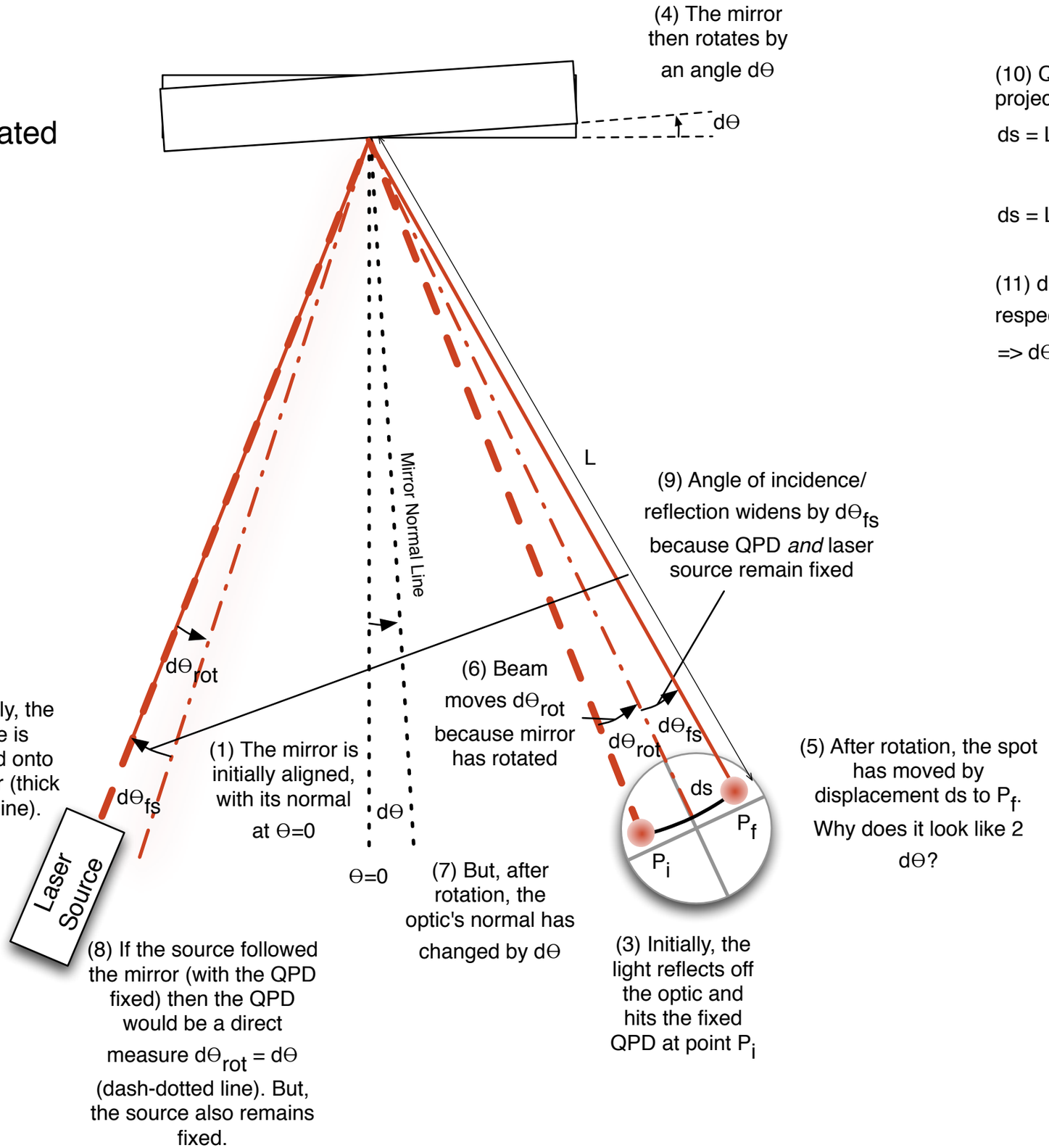
G1200698-v1

(Follow the enumerated thought process)



(10) QPD measures ds, the projection of arc across its face:

$ds = L\,(d\Theta_{rot} + d\Theta_{fs})$

$[d\Theta_{rot} = d\Theta_{fs} = d\Theta]$

$ds = L\,(2\,d\Theta)$

(11) dΘ is measured with respect to mirror's Θ=0 line:

$\Rightarrow d\Theta = ds / (2\,L)$