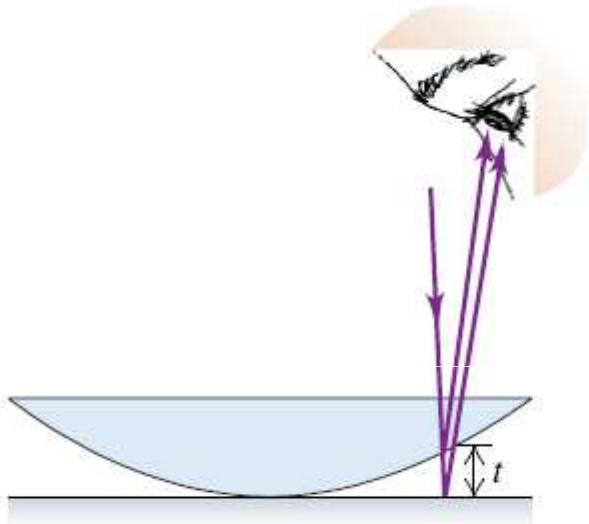
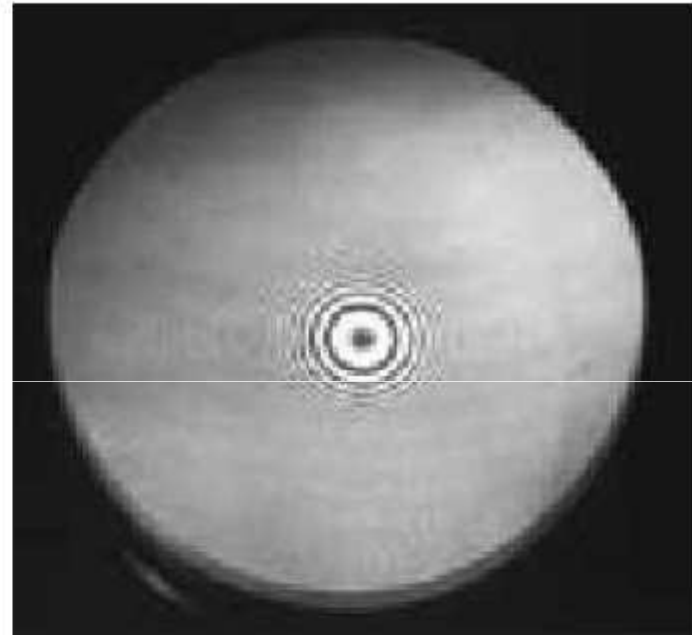


(a) A convex lens in contact with a glass plane



(b) Newton's rings: circular interference fringes



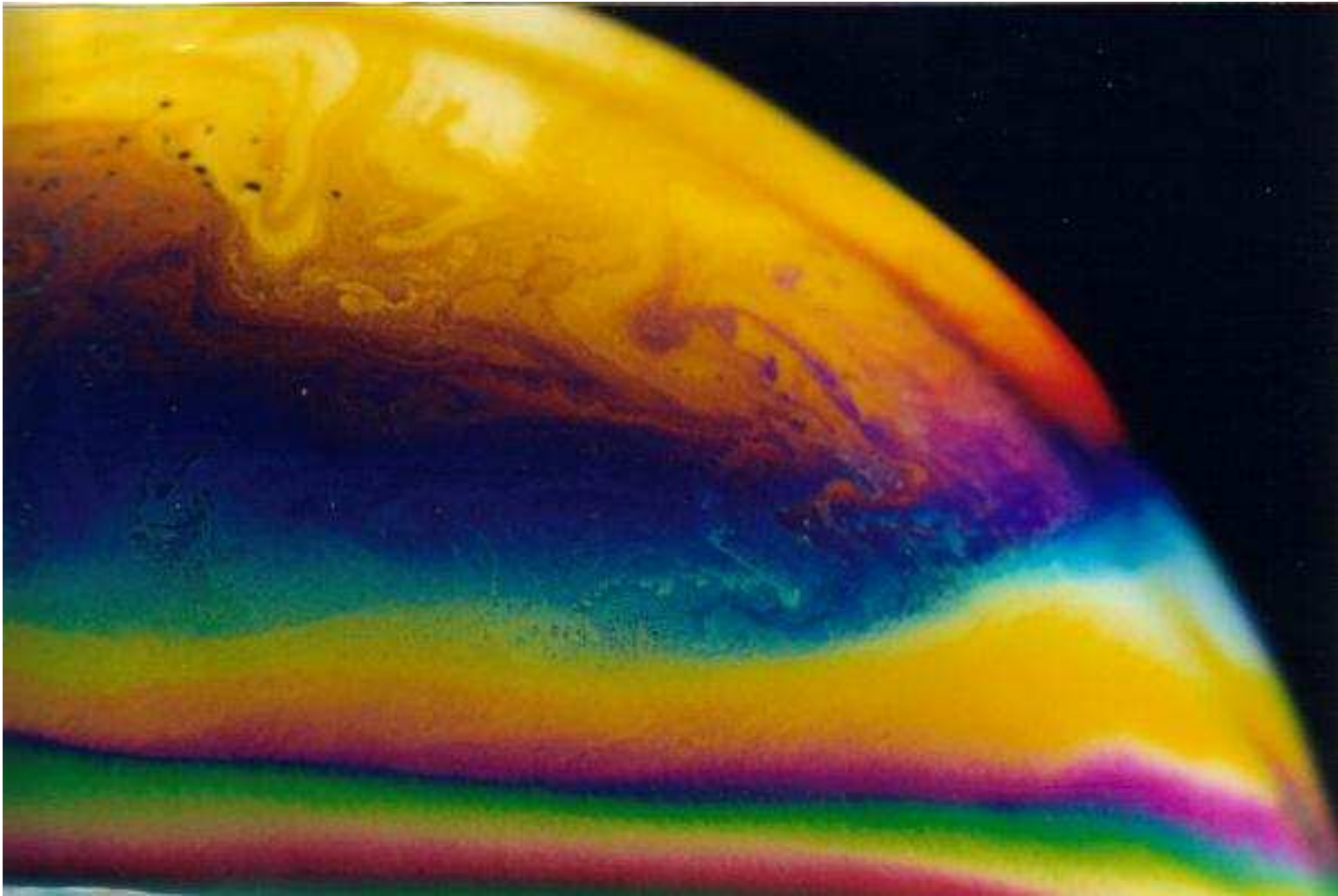
If light of wavelength λ has optimal constructive interference for a particular thin film, can this be true of any other wavelength of visible light? Consider the case of normal incidence.

a) No.

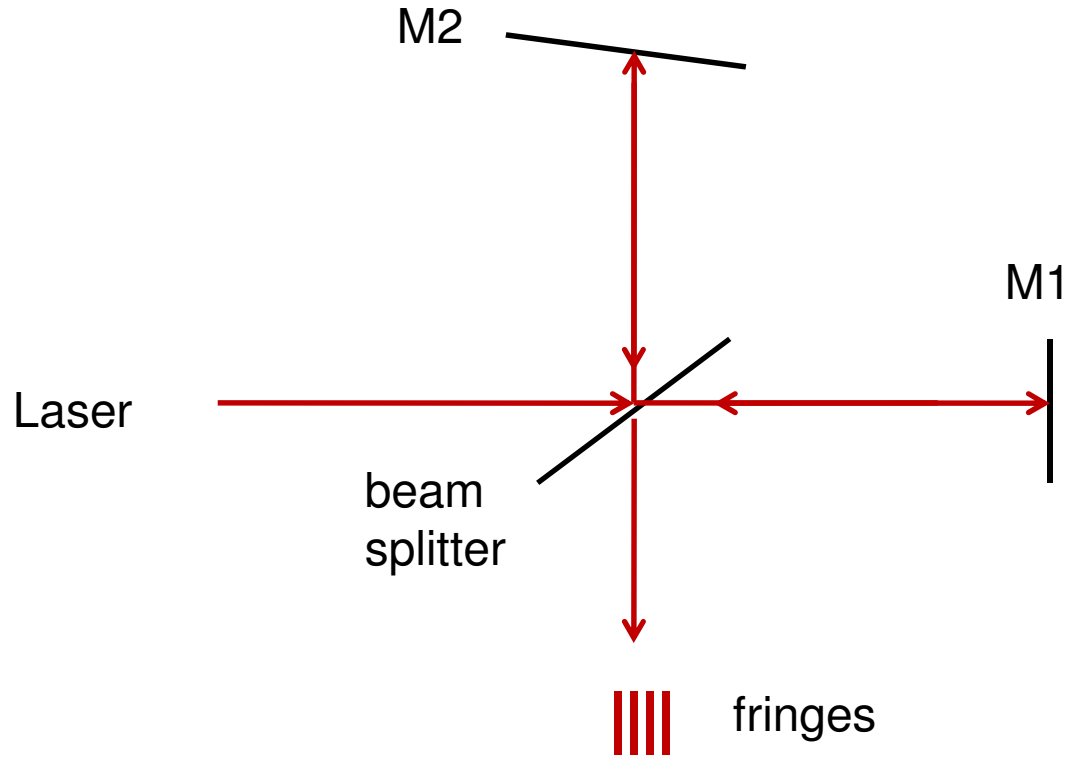
b) Yes.

c) Not enough information is given.

But only for higher orders, not $m=1$



Thin film interference in a soap bubble.



If M2 is moved up,

a) the fringes move left.

b) the fringes move right.

c) nothing visible happens.