Phys 2110-5 12/3/12

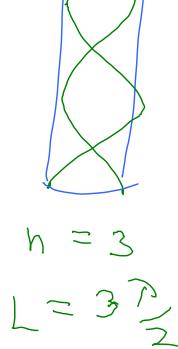
Note Title 12/3/2012

Standing Wares

$$L = h \frac{\lambda}{2}$$

Pipe: Open hoth ands:

(mole cule motion)



Pipe closed one end n=1,3,5 N=1 fond met as ¿cifar Go

Doppler Effect

Picture Sa far:

f = 1

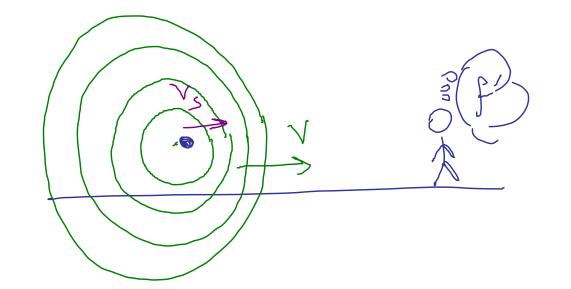
Source

Source

2 variants:

obs ancounters
naxima at
increased vate
He obsid

f' (> f toward)



Some in moton.

Small dist. between

maxima.

Encounters maxima

more ofth

f'; s > f (+ource)

+oward)

Moving source

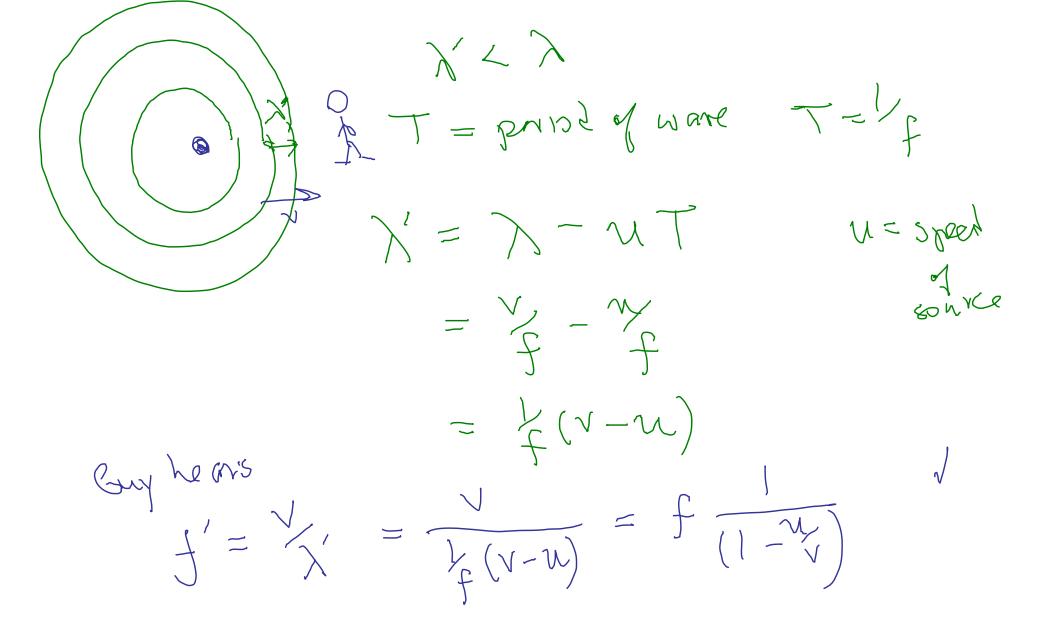
$$f' = f \frac{1}{1 + 1}$$

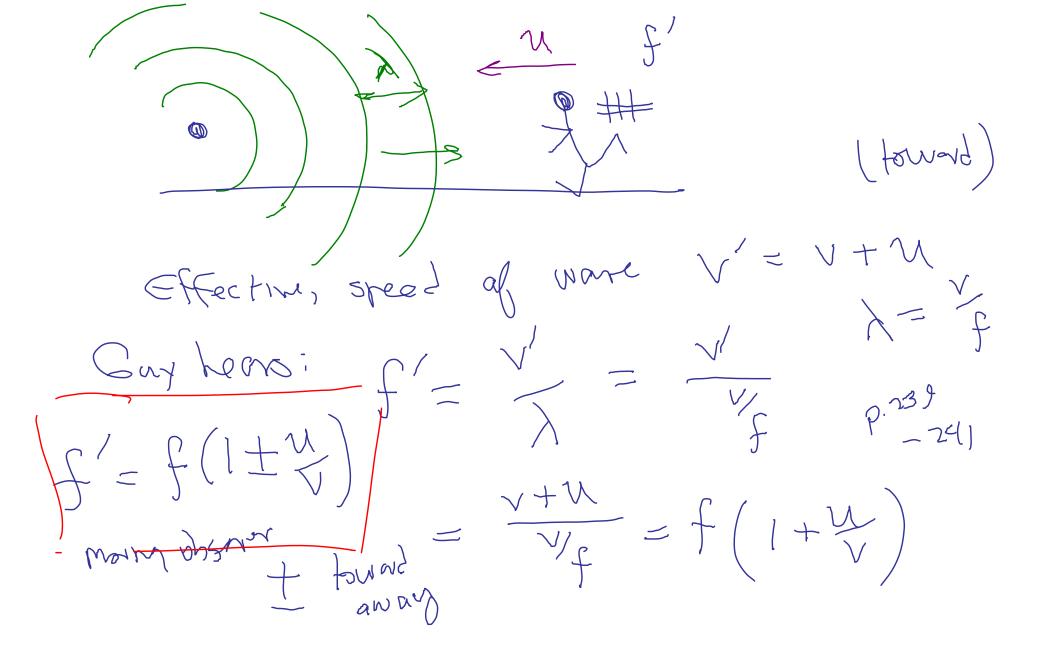
N= speed of sound

N= speed of observer

Toward

T) away



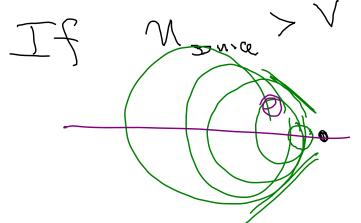


Both In motion:

I = I = Usome

(I + Usome)

Hon-relativistic formula



shock wave

V > V