

Intelligence

Dweeb

Social Ineptitude

LAB 25 (Waves) Review

Geek

Dork

Obsession

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**Greenwich HS, CT / Rowan
University, NJ**

Review

Intelligence

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LAB 25

Intelligence

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Motion of pulse

Nerd

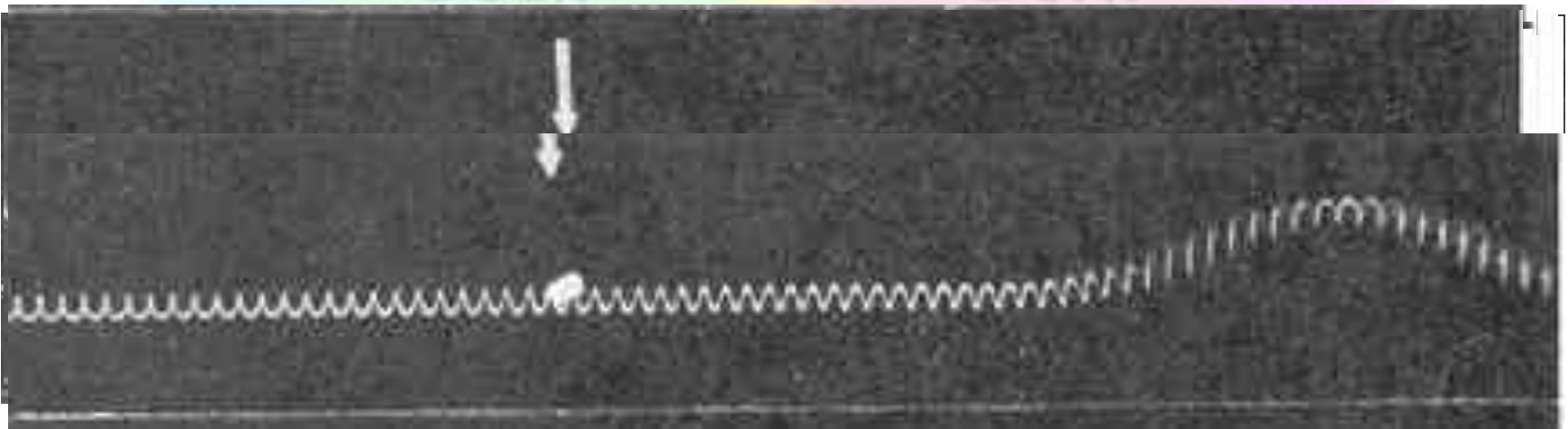
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4. What does a specific point on a slinky do as a pulse goes by?

Figure 2



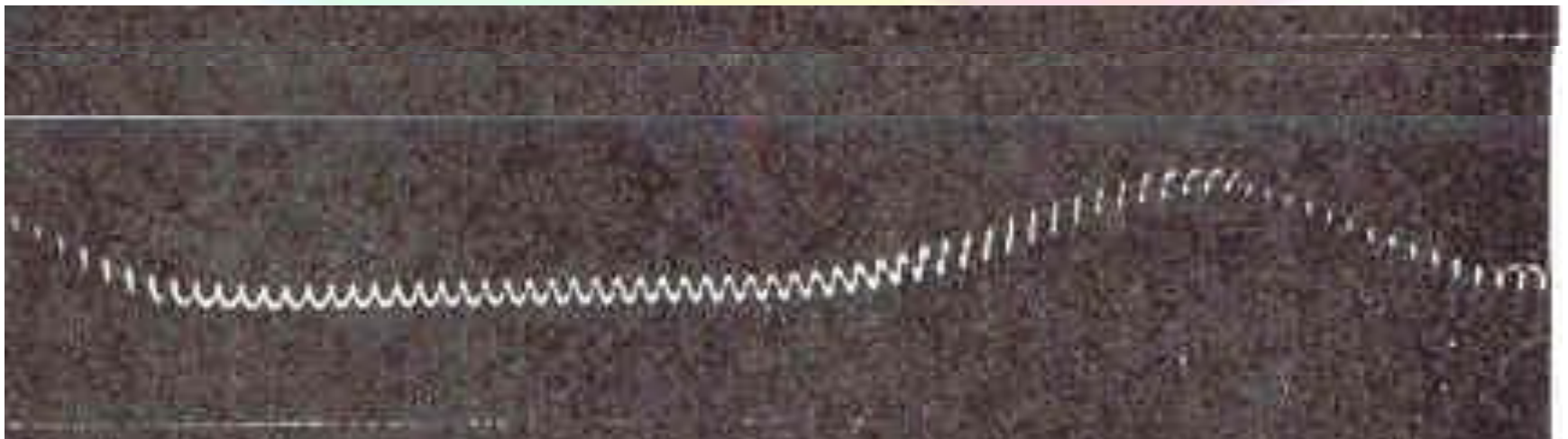
6. What is observed when two similar pulses (same amplitude) are sent down the slinky, one from each end, oriented in the same direction, at the same time.

Geek

Nerd

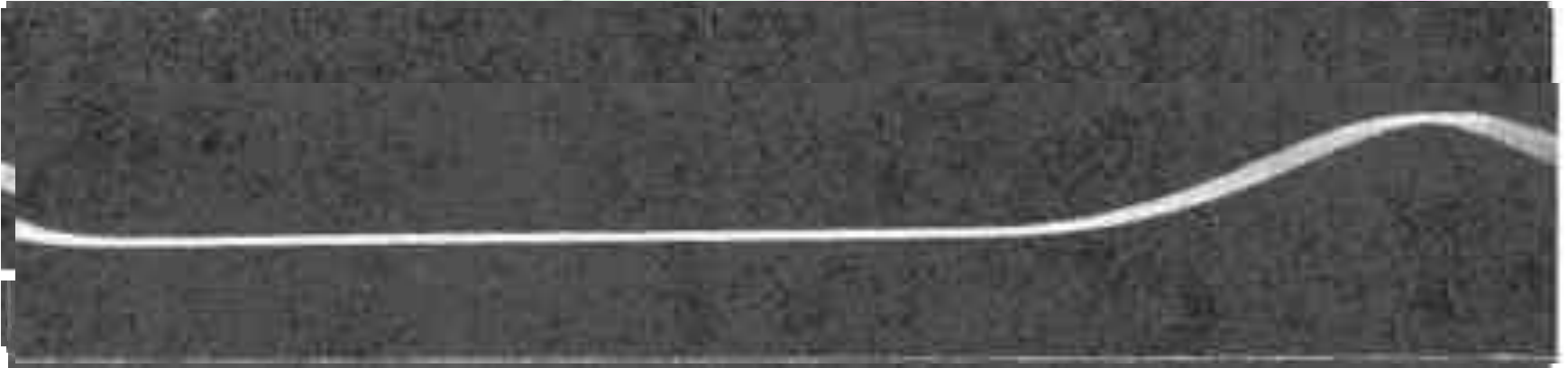
Dork

Figure 5



7. When pulses are generated from each end, do they pass through or reflect back from each other?

Nerd

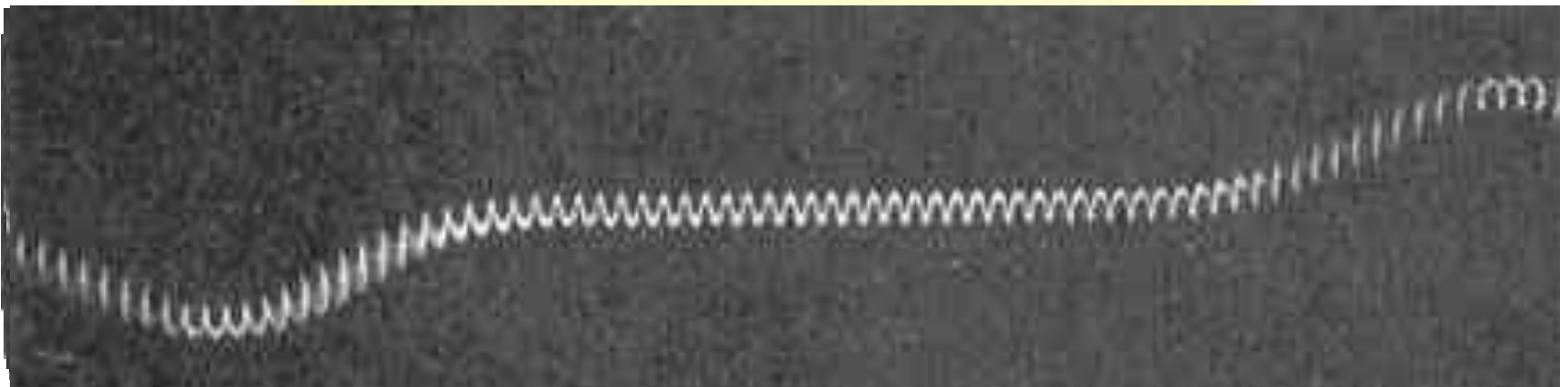


They pass through each other.

Obsession

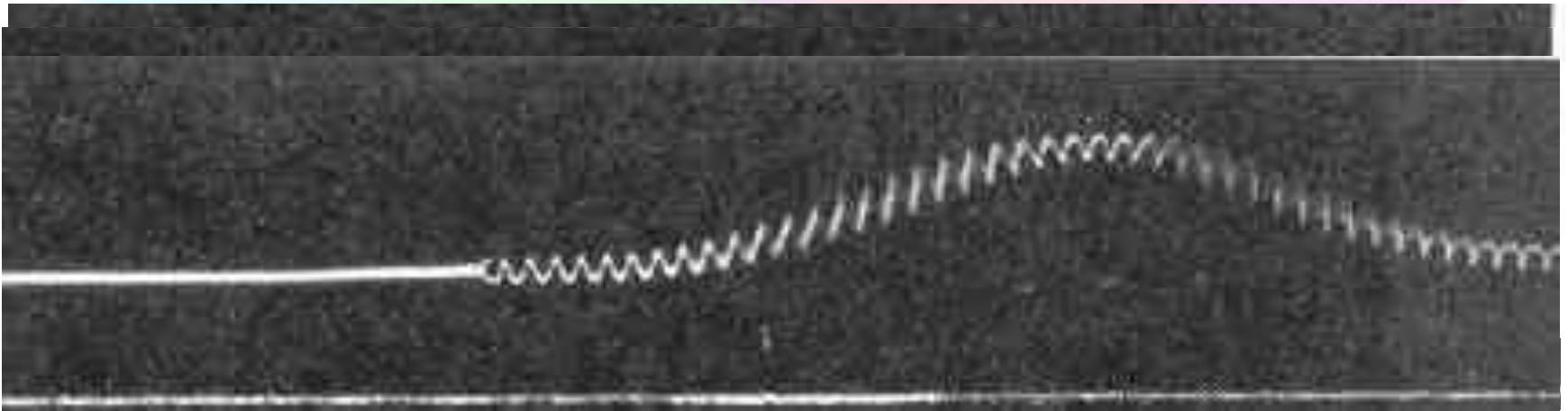
Figure 4

The superposition of two equal and opposite pulses on a coil spring. In the fifth picture they almost cancel each other.



Less Into More Dense Material

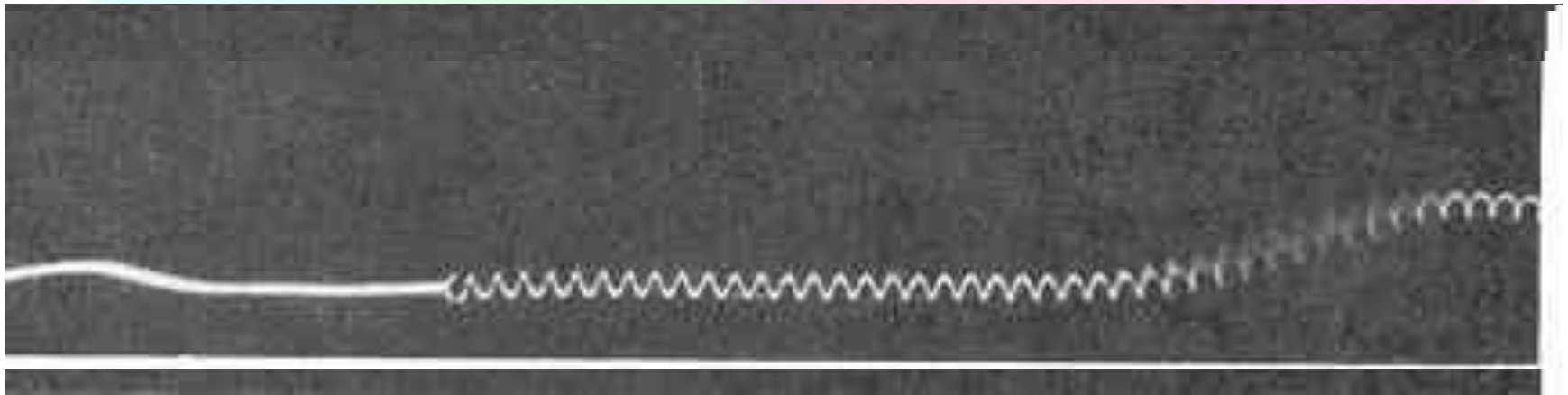
- When a pulse is sent from the end of a slinky, what is observed?



Obsession

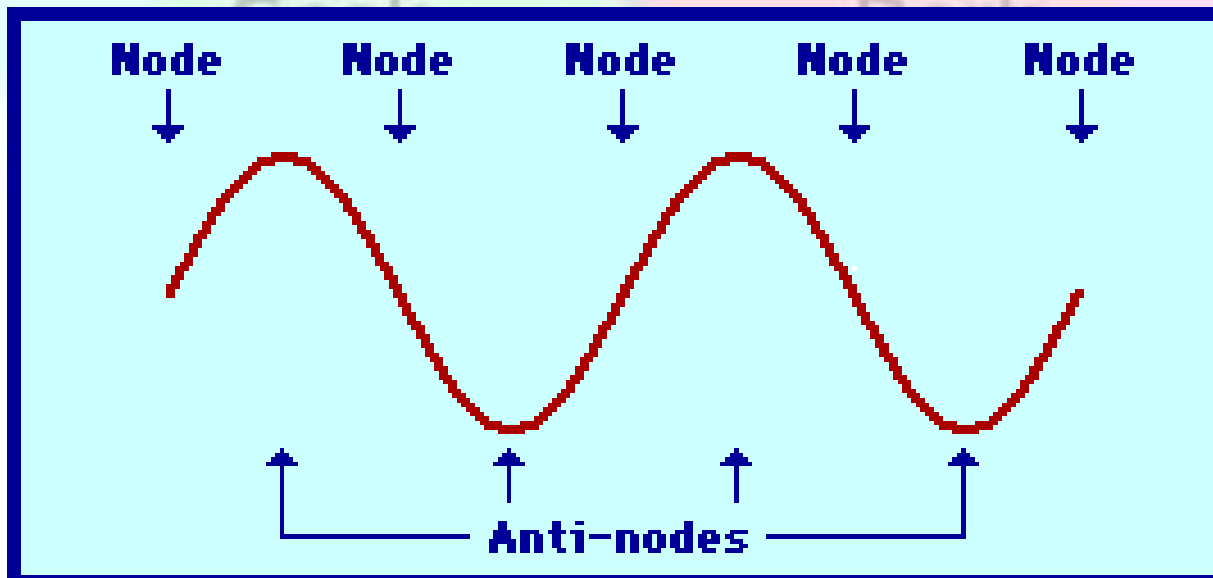
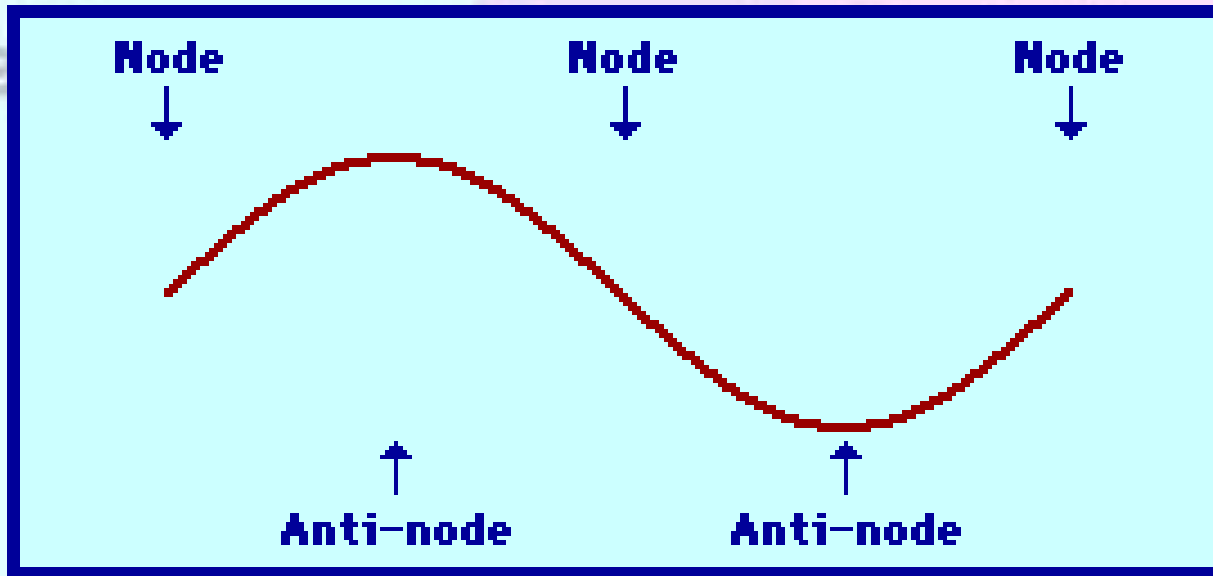
More Into Less Dense Material

- When a pulse is sent from the metal end of a slinky, what is observed?



Obsession

Animations



Animations

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Less to more

More to less

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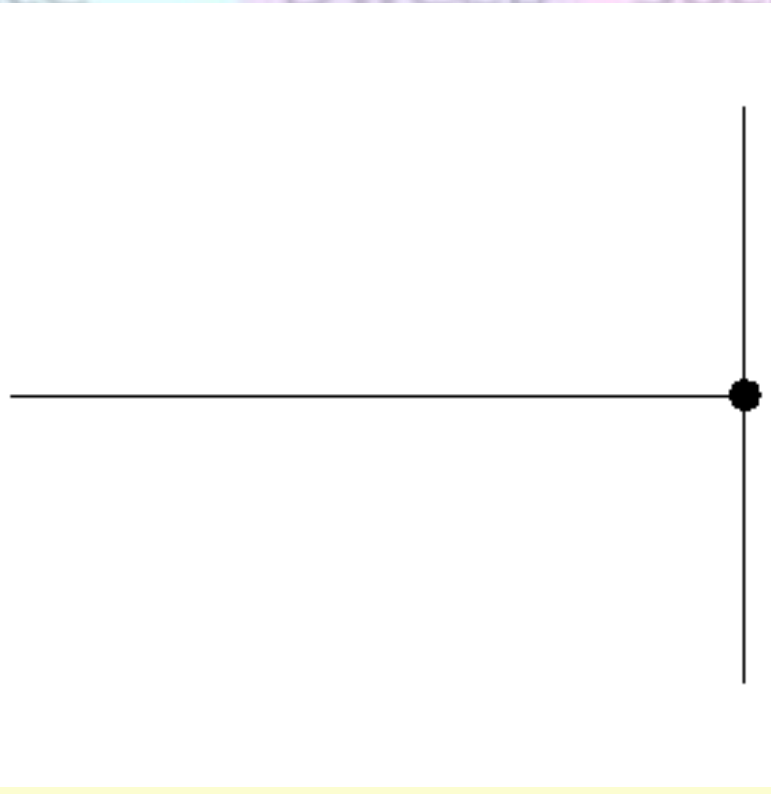


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Rigid Reflection

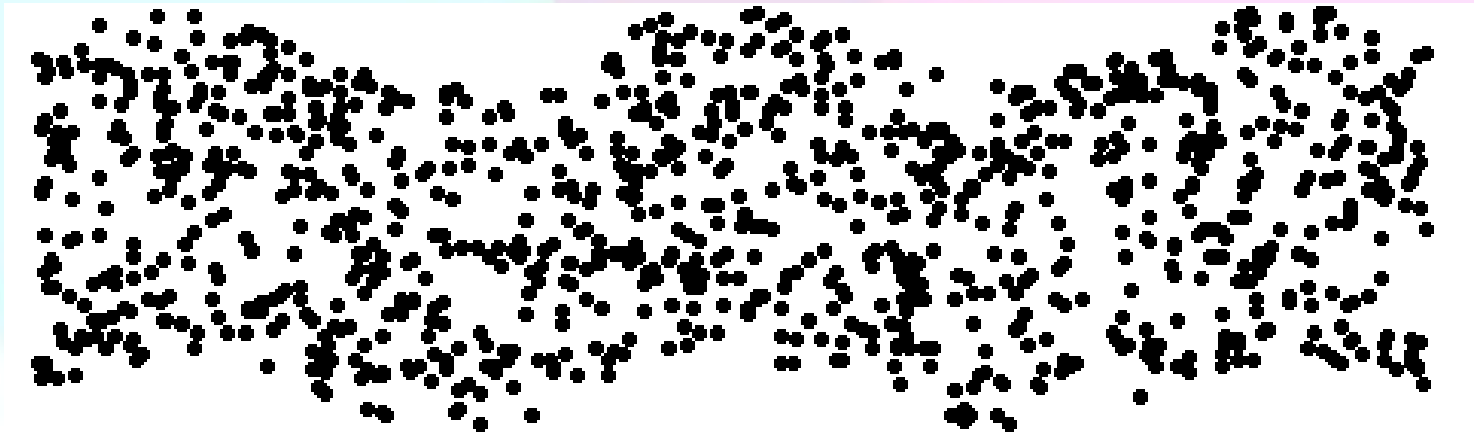
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Transverse

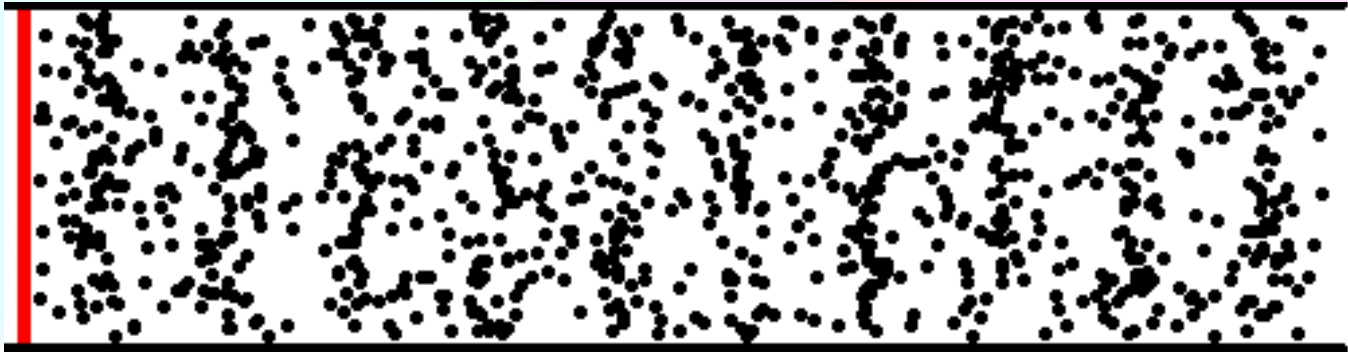
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Longitudinal (Compressional)

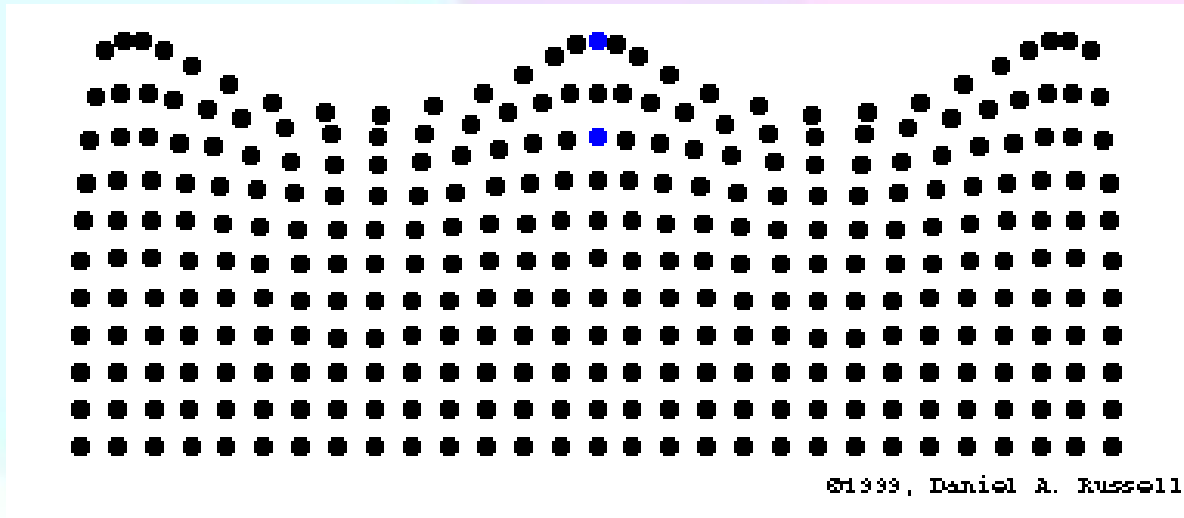
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Water wave (Surface wave)

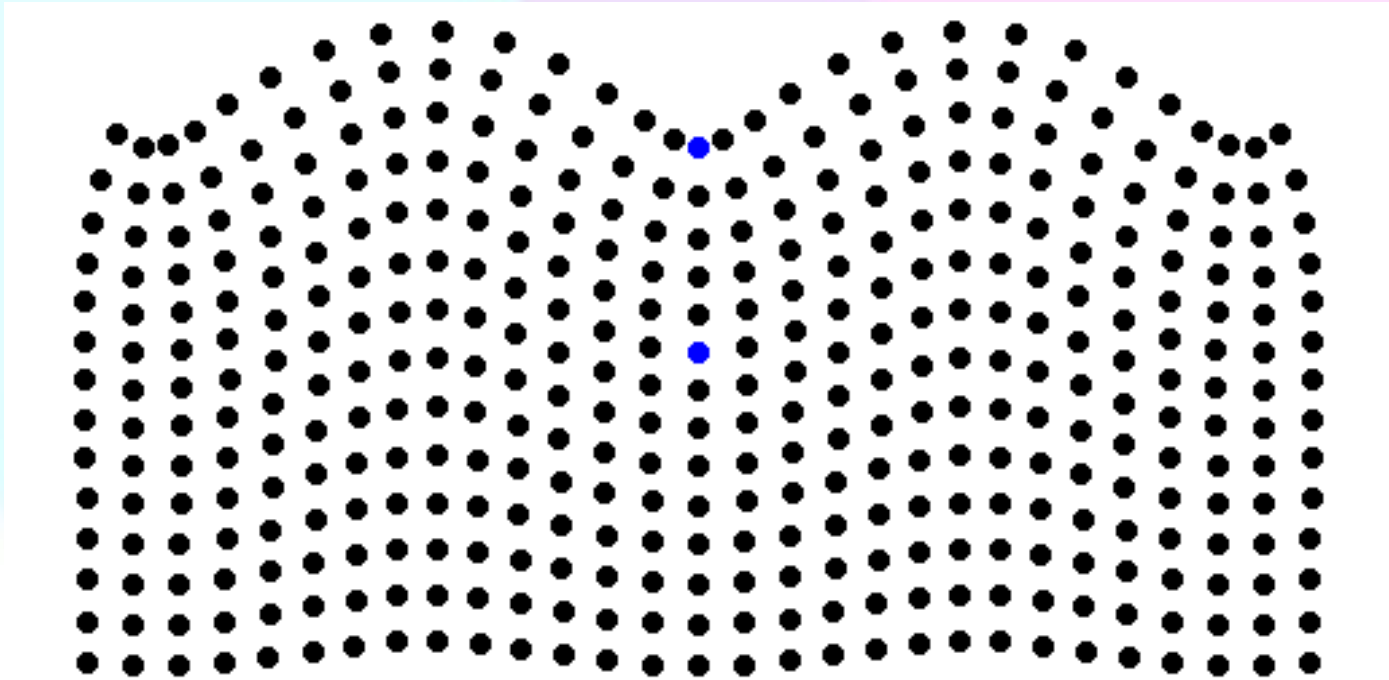
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Rayleigh wave (Earthquake)

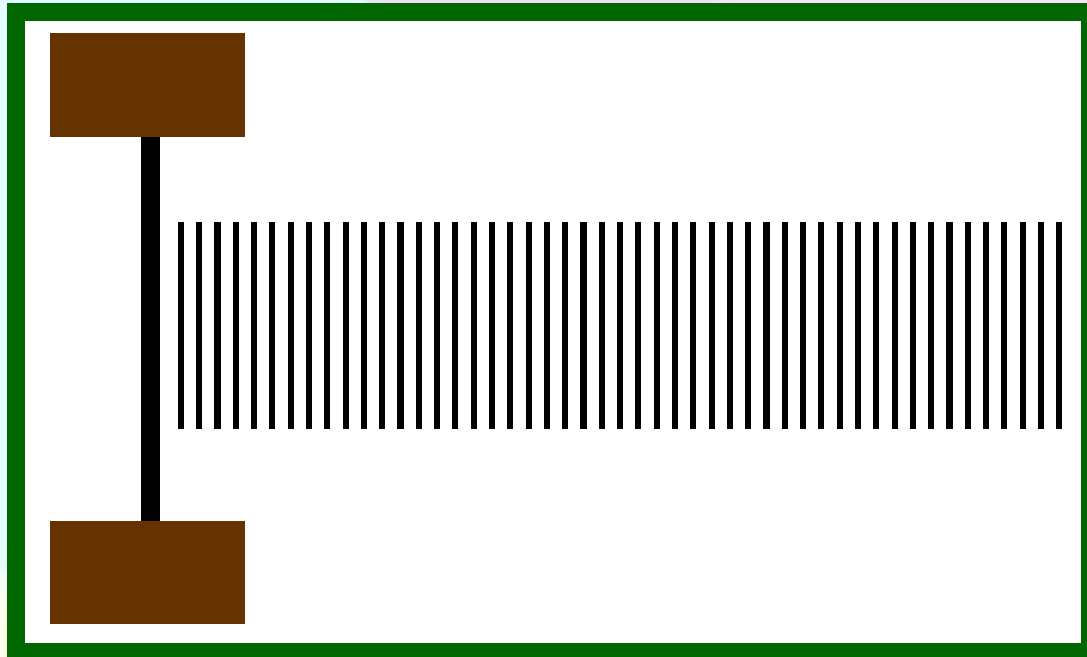
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Guitar string (Longitudinal in air)

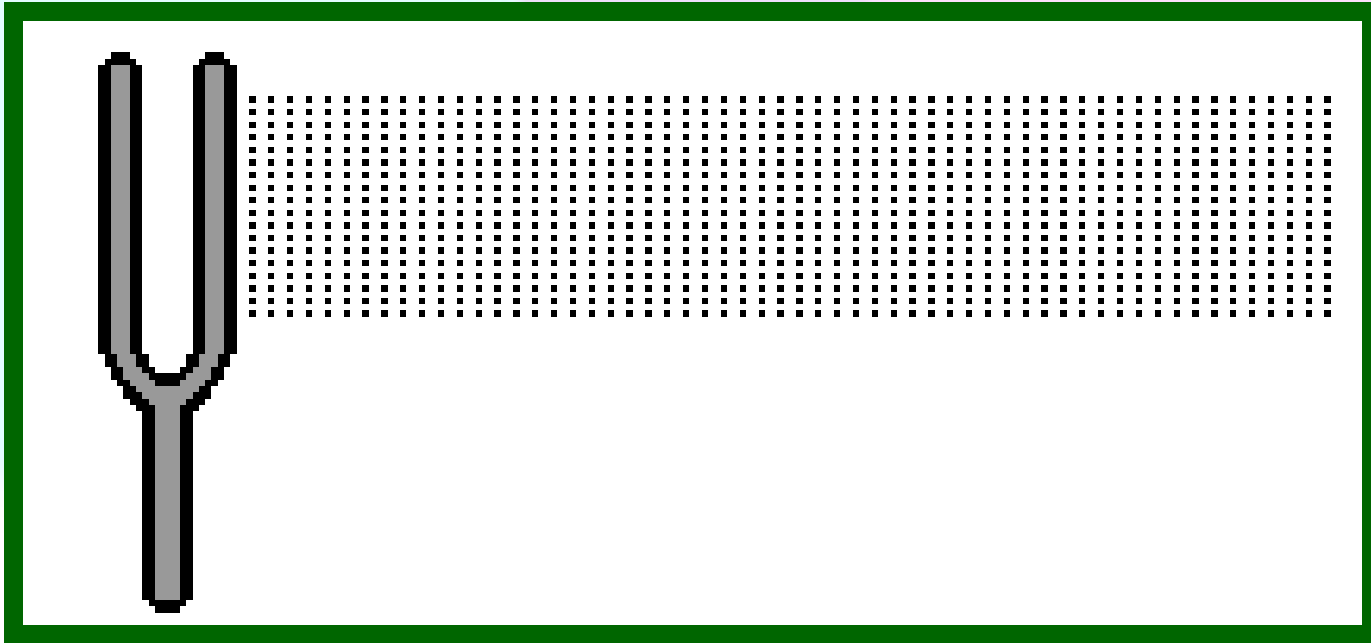
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Tuning fork (Longitudinal in air)

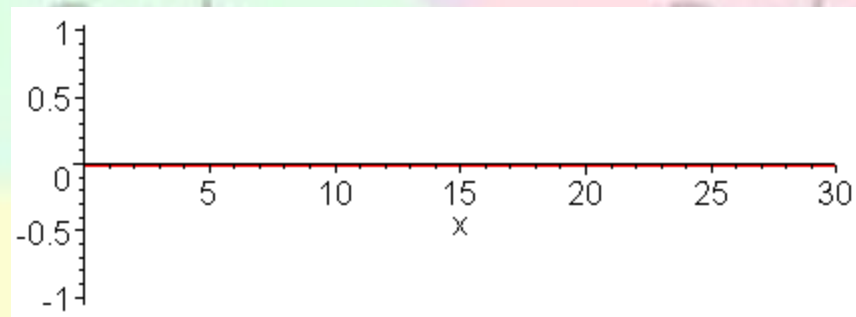
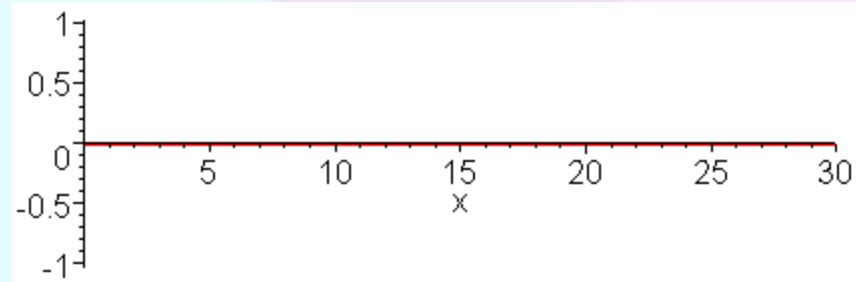
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Relation of f and λ

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Galloping Gerty Video

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