My name is Mike Gentile.

(you can call me "Mike")

Mgentile @ physics. rutgers. edu

Physics 194 - Lecture 14

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Have a question during class? Please ask it right away, even if it means interrupting in the middle of a thought. I want you to!

Agenda

- Waves + medicins
- wave speed
- Standing waves + resonant frequencies

Class Starts @2:15 pm Waves Rendelus (My vocal chards) (your eardnin) Medium Jeeco O occer Doce T Necessary conditions For a wave to happen: 1) Heed an interacting medium (the physical components, and

[astic the interactions between them] Elastic 2) Added energy. bloberth FBC ONBC & Bungee card J. M. Bunge card Carturas medium linear mass density Wall property Bunger cord -FBC - BC Transmitted

String instruments $v = \Delta = \lambda +$ >peed Frequency inbrut a of + 5-He wavelength This is one wavelength, it. Is the single travels through the - that point on the Vibrating string completes a single cycle up & dawn. That takes one period T in time to happen. Green: Right-moving wave Yellaw: Left-moving wave Blue: Superposition of greent rellar, a standing wave vibrating in place. The "note" you hear.