

Science Careers in the Intelligence Community

Tuesday, October 9
5:30-7:00 pm

Cohen Career Center
Presentation Rooms A&B

Learn about science careers in the intelligence community from representatives at the **Drug Enforcement Administration**, the **Federal Bureau of Investigation**, and the **National Security Agency**.



dlsnyder@wm.edu

<http://tinyurl.com/sciintelligence>

Fresnel Equations

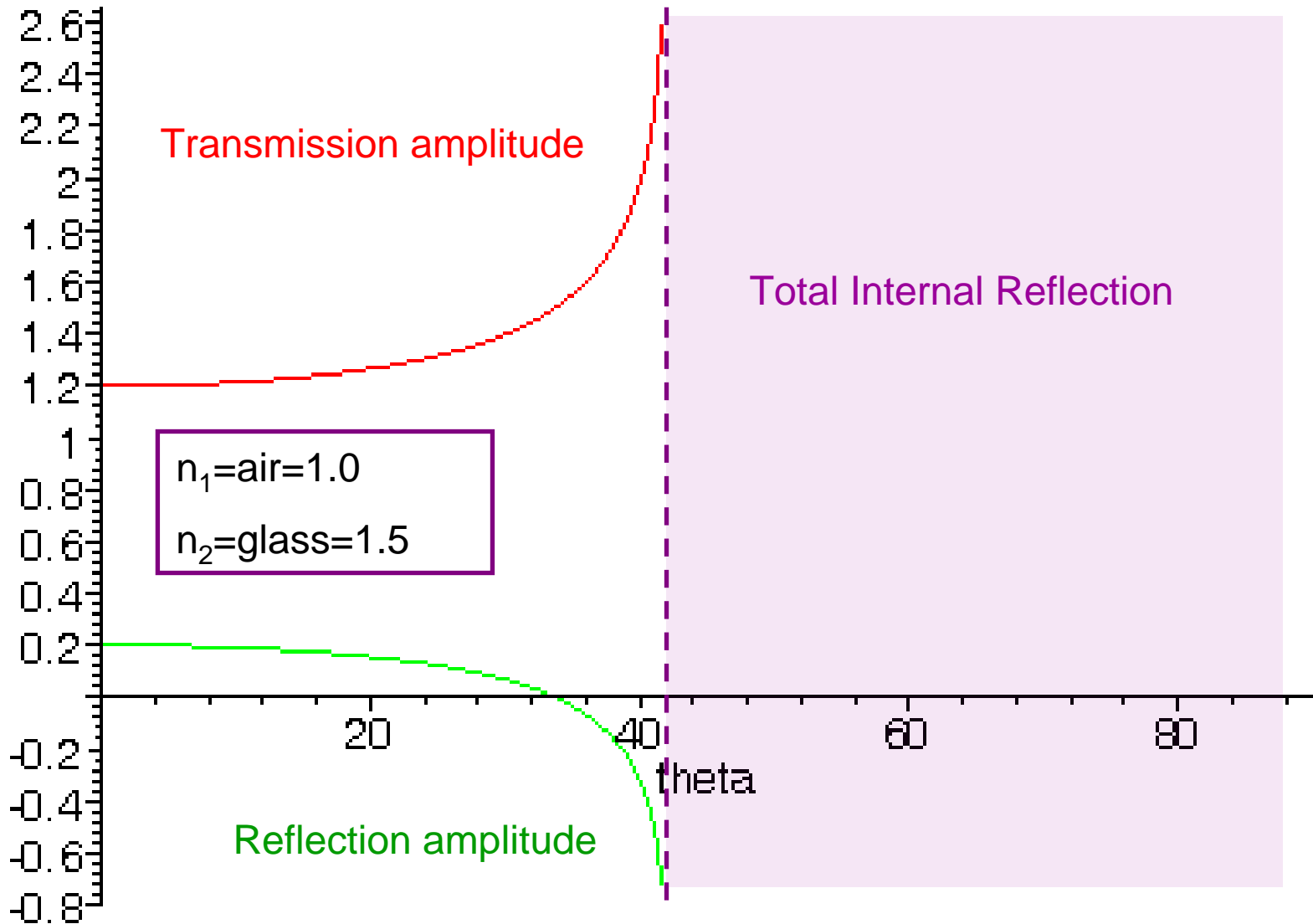
Transmission Amplitude:

$$t = \frac{2}{\frac{\sqrt{1 - \left(\frac{n_1}{n_2}\right)^2 \sin^2 \theta_i}{\cos \theta_i} + \frac{n_2}{n_1}}$$

Reflection Amplitude:

$$r = \frac{\frac{\sqrt{1 - \left(\frac{n_1}{n_2}\right)^2 \sin^2 \theta_i}{\cos \theta_i} - \frac{n_2}{n_1}}{\frac{\sqrt{1 - \left(\frac{n_1}{n_2}\right)^2 \sin^2 \theta_i}{\cos \theta_i} + \frac{n_2}{n_1}}$$

Total internal reflection: Glass: $n_2=1.5$



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