

Have you ever wanted to

Work for NASA?

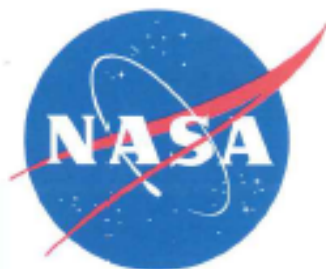
Come to the

NASA Langley Information Session

and hear about their internship programs from
past participants!

Thursday, October 4, 5:30 – 6:30

**Cohen Career Center
Presentation Rooms A&B**



<http://tinyurl.com/NASALangleyInfo>
dlsnyder@wm.edu

Science Careers in the Intelligence Community

Tuesday, October 9, 5:30pm

Cohen Career Center

Science plays a critical part in the agencies that make up the intelligence community.

Representatives from the **Drug Enforcement Agency**, **National Security Agency**, and **Federal Bureau of Investigation** will highlight their organizations and positions, as well as science and technology career paths.

Register to attend at <http://tinyurl.com/sciintelligence>

Fresnel Equations

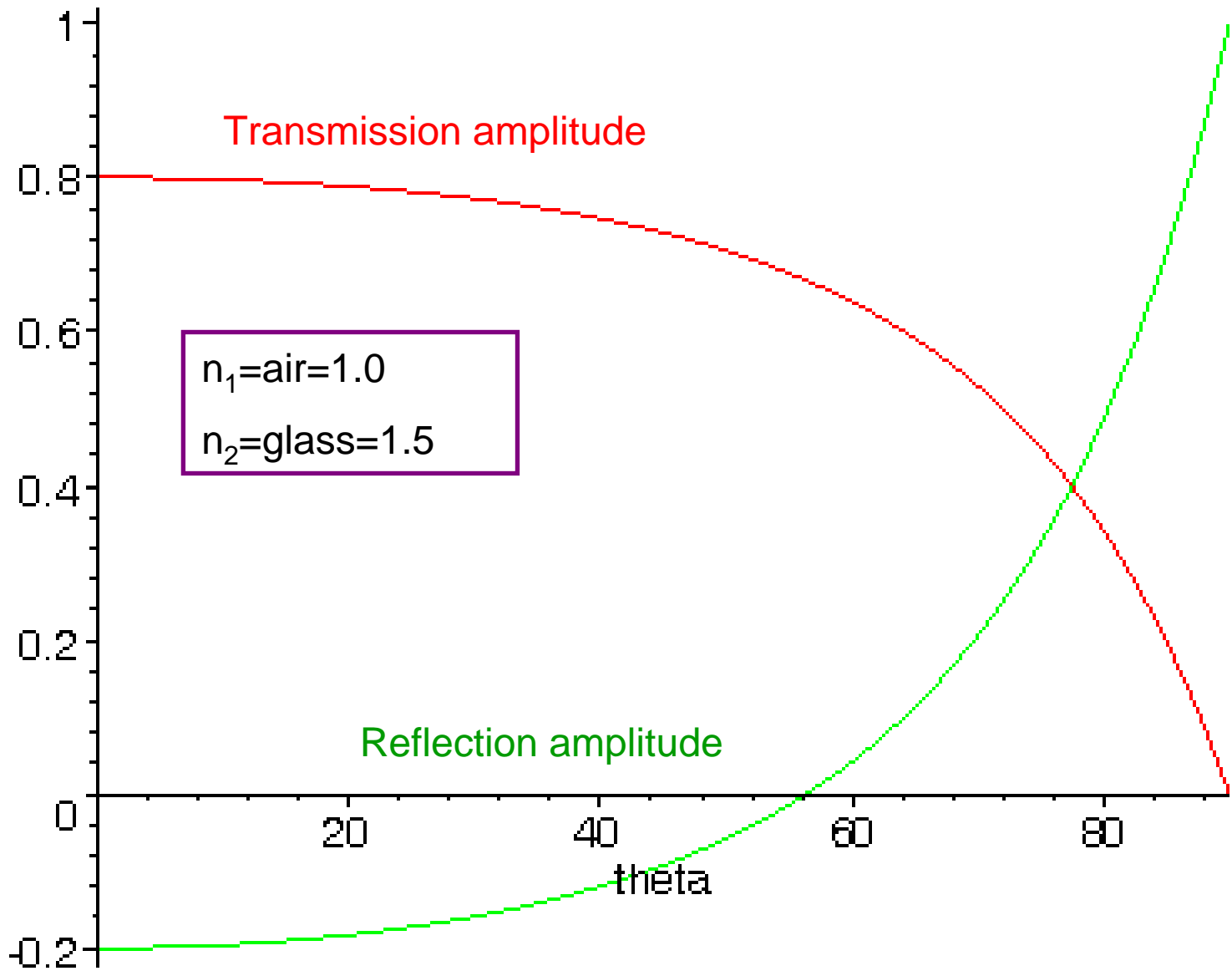
Transmission Amplitude:

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

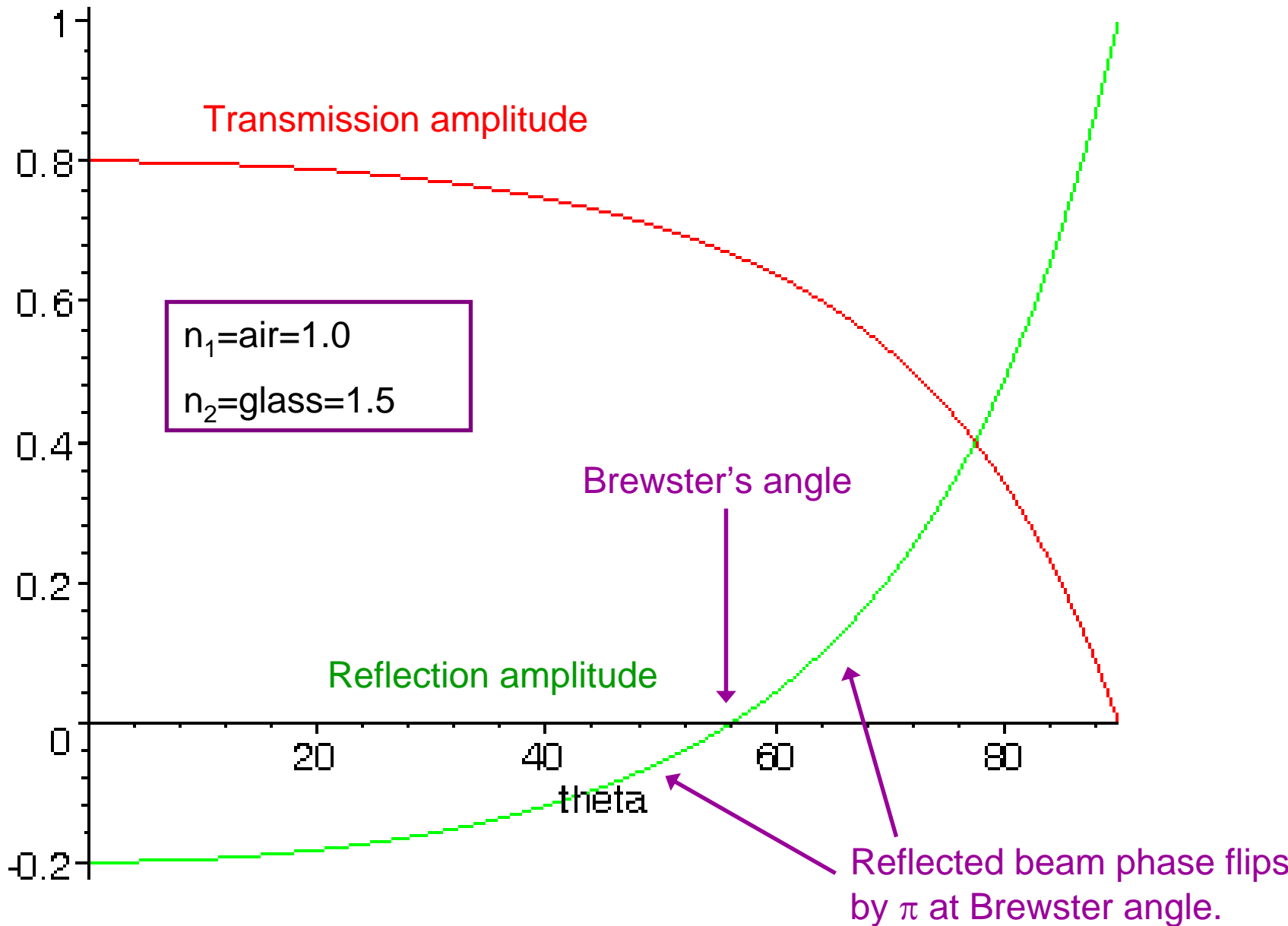
Reflection Amplitude:

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

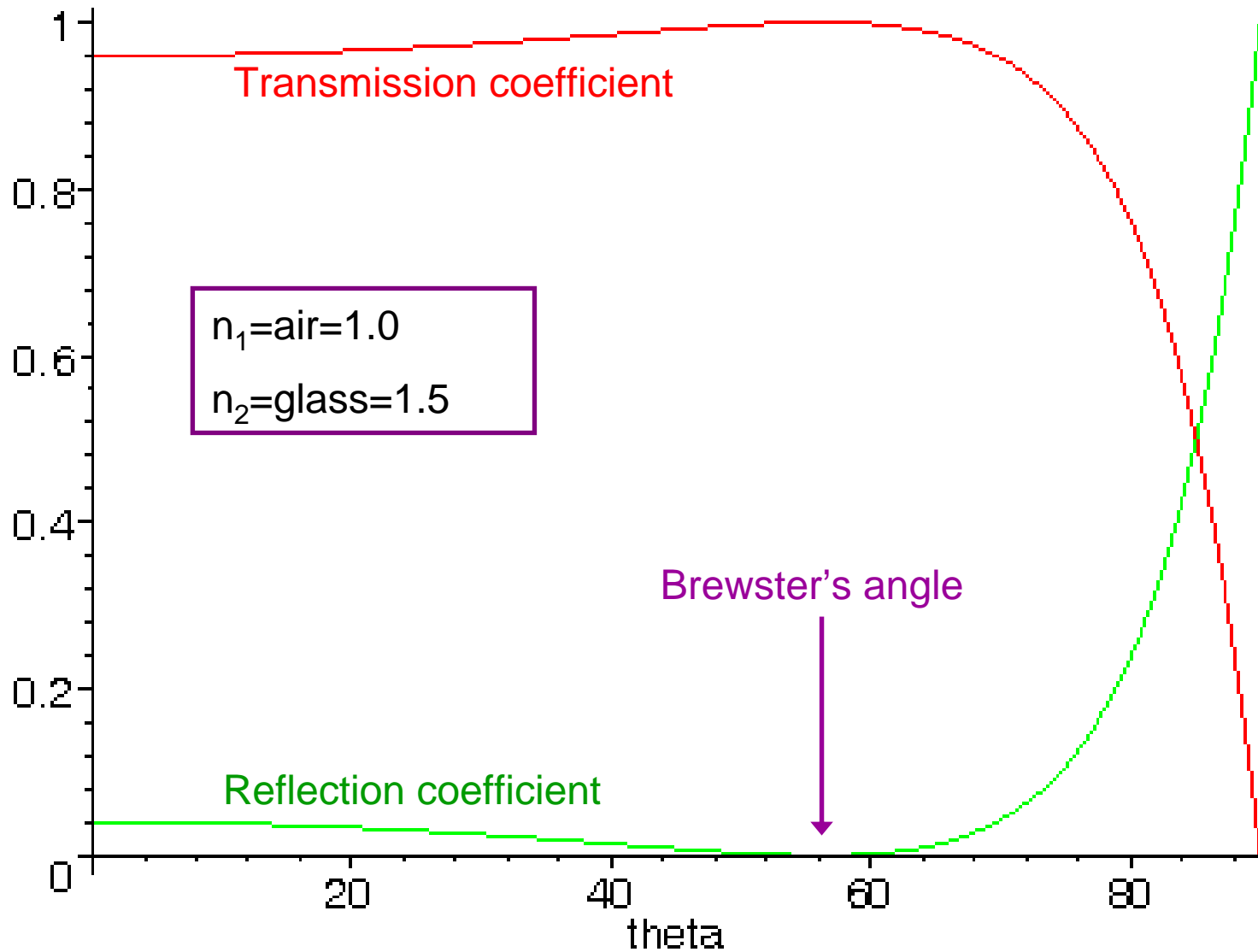
P-polarized light on Glass, $n_2=1.5$



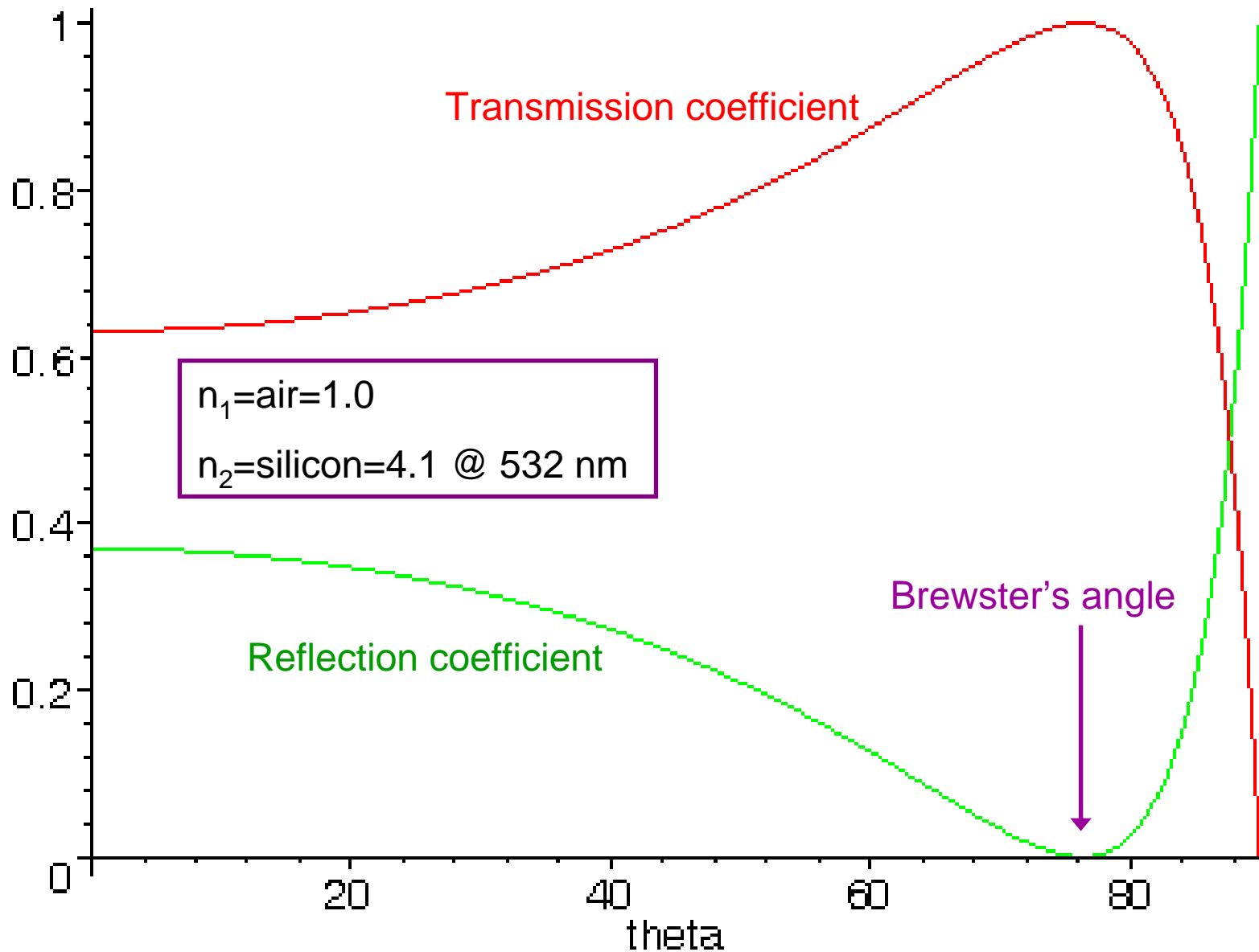
P-polarized light on Glass, $n_2=1.5$



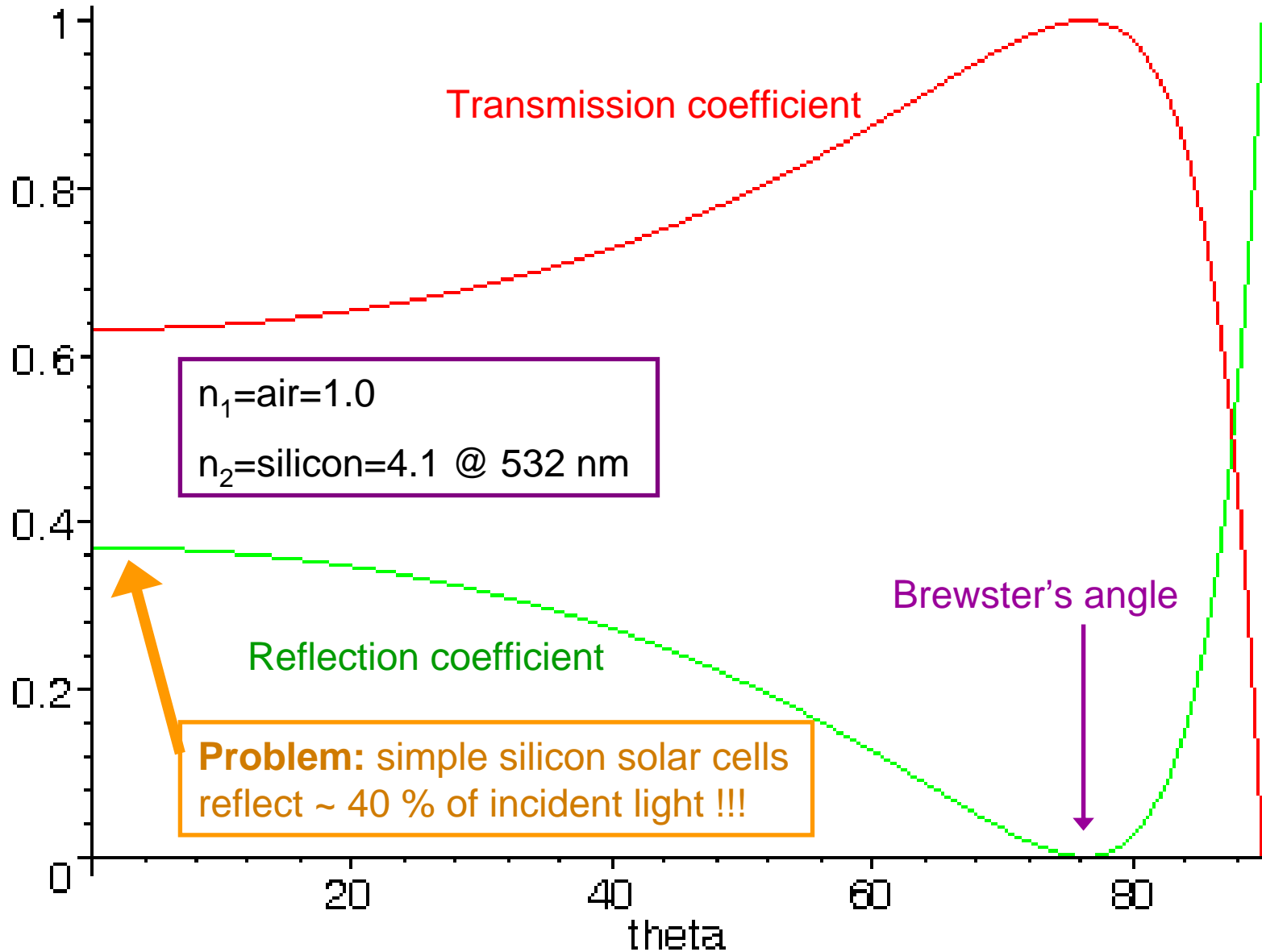
Glass: $n_2=1.5$



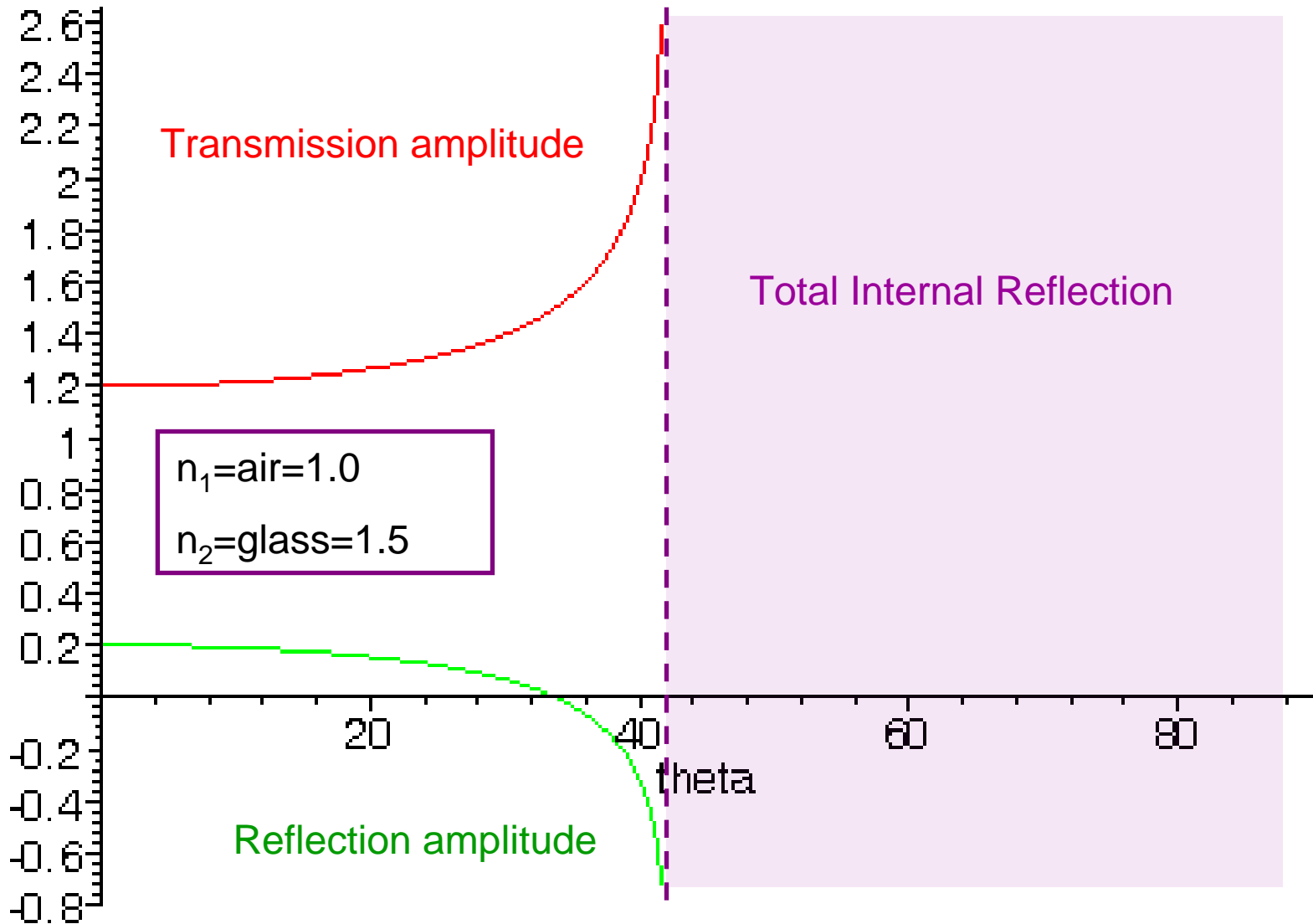
Silicon: $n_2=4.1$



Silicon: $n_2=4.1$



Total internal reflection: Glass: $n_2=1.5$



Total internal reflection: Glass: $n_2=1.5$

