

Luminosity of TOI-560

$$L = 4\pi R^2 \times \sigma T^4$$

$$L = (7.125 \times 10^{-7}) R^2 \times T^4$$

$$L = 7.125 \times 10^{-7} \times (0.65 \times 696,340,000)^2 \times 4,511^4$$

$$L = 6.04429 \times 10^{29} \text{ [W]}$$

Spectral flux of TOI-560

$$\Phi = \frac{L}{4\pi R^2}$$

$$\Phi = \frac{6.04429 \times 10^{29}}{4\pi \times 0.125 \times 149,597,871}$$

$$\Phi = 13,681.47386 \text{ [W.m}^{-1}\text{]}$$