

### Problem 36 in 11.7

After class today (Oct. 9) I was asked about the convergence of the following:

$$\sum_{n=2}^{\infty} \frac{1}{(\ln n)^{\ln n}}$$

Finally we decided on the following hint. Show that eventually

$$\frac{1}{(\ln n)^{\ln n}} < \frac{1}{n^2}$$

by using a Limit Comparison Test.