



Chapter 6 Structural change Study questions

- 1. Consider the model of structural change with only substitution effects, and assume R is energy. Assume that we change the production function for y_2 to $y_2 = \gamma_r k_r \min(\beta l, r)$ and parameterize such that the share of R is y_2 is 20 percent.
 - (a) How will this model behave?
 - (b) What will happen to the energy share in y_2 over time, as the economy grows?
 - (c) Do you think the model will be able to explain the data?
- 2. What happens if we raise α in the model with income effects? Link to rebound. What is the effect of taxing energy use?
- 3. Assume that you want to reduce damages from CO₂ emissions from air travel in an economically efficient way. However, a tax on emissions (or equivalently a tax on fuel use) is not an option. Discuss the option of subsidising research into engine efficiency. How about a 'per seat' flight tax? What would the social planner do?