Homework on sexual selection theory.

1. What is the major problem with the sexy son hypothesis? How does Fisher’s model deal with this problem?

2, Be able to summarize Fisher’s and Zahavi’s models in a few sentences.

3. In the birds treated by Hamilton and Zuk, what are females gaining by mating with the brightest males? How did Hamilton and Zuk’s paper support Zahavi’s model of female choice?

4. Does Zuk and Hamilton’s work address the problems associated with Zahavi’s model?

5. Why do *Trilurus* newts have to be honest salesmen? How do their exaggerated crests support Zahavi’e ideas?

6. Thought question.

Could Zuk and Hamilton’s case study support Fisher’s hypothesis and could it also address the problems with his theory?