

PHYSICAL SOURCES OF UNCERTAINTY

UHON 351U — UNCERTAINTY, SPRING 2013

1. WHAT IS TO BE DONE

You will assess the extent to which physical limits on certainty account for the uncertainty relevant to medical decision support and/or corporate risk management. The physical limits on certainty that you consider should include at least Heisenberg's Uncertainty Relations/Principle and the limitations arising from chaotic/nonlinear dynamics.

Your focus should be on accurately depicting the physical sources and explaining their import or lack of it. Your explanation of their import or lack of it will give evidence of your understanding of the physical effects.

2. DUE DATE

The paper is due on February 14.

3. GRADING

In addition to the usual criteria, I will assess the following content questions:

- (1) Does the report take a clear position on the import, or lack thereof, to medical decision support and/or risk management of physical sources of uncertainty, including Heisenberg uncertainty and chaotic/nonlinear dynamics?