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Nonlinear Dynamics: Mathematical and Computational Approaches

Lead instructor: [Liz Bradley](#)

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✓ 8.1 Time-series analysis and the observer problem » Quiz

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Quiz scores are NOT recorded.

- You may come back to quizzes and take them as many times as you like
- When you are finished, clicking the "Score" button at the bottom of the test will show you the correct responses.

Question 1

It is always possible to measure at least one state variable from any dynamical system.

- ☐ A. True
- ✓ ☒ B. False

Question 2

Measuring a single state variable from a high-dimensional dynamical system effectively projects that system's dynamics onto a plane.

- ☐ A. True
- ✓ ☒ B. False

Question 3

Projections of attractors of dynamical systems...

- ☐ A. Can cause the topology of the projected attractor to differ from that of the unprojected attractor.
- ☐ B. Can cause trajectories in the projected attractor to cross one another.
- ☐ C. Always increase the dimension of those attractors.
- ✓ ☒ D. A and B above.
- ☐ E. A and C above.
- ☐ F. B and C above.
- ☐ G. None of A-C above.
- ☐ H. All of A-C above.

Question 4

Spectral methods tell you...

- ✓ ☒ A. What frequencies are present in a signal.
- ☐ B. The dimension of the dynamics sampled by a signal.
- ☐ C. Whether or not a signal comes from a dynamical system that has recently undergone a bifurcation.

You got 4 out of 4 questions correct

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