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Chaos analysis using Poincaré sections. To create the Poincaré sections, a reconstructed trajectory embedded in three-dimensional space is created. Figure shows the Poincaré sections when the reconstructed orbit is cut at various angles. The figure shows the mechanism through which chaos stretches and folds (i.e., the sensitivity to the initial conditions causes the two points to rapidly move apart and then come close again), which is a characteristic of chaos.

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