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preserving map of the two-dimensional annulus to analogues of twist maps for higher dimensional annuli and their applications to dynamical systems.

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A map  $((\theta, r) \mapsto (\theta_{1}, r_{1}))$  is twist if it satisfies  $(\frac{\partial \theta_{1}}{\partial r} - \frac{\partial \theta}{\partial r} > 0)$ . Twist maps have been extensively studied and they are useful to understand the dynamics of autonomous or periodic Hamiltonian systems. In this course we study twist

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Applications of the mapping methods encompass the chaos theory in non-twist and non-smooth dynamical systems, the

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structure and chaotic transport in the stochastic layer, the magnetic field lines in magnetically confinement devices of plasmas, ray dynamics in waveguides, etc.

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For large  $\epsilon$ , the measures are hyperbolic and, for a class of potentials which includes  $V(x) = \epsilon V_0(x)$ , the Lyapunov exponent of the map with invariant measure grows monotonically with  $\epsilon$ . References [Enhancements On Off] ( What's this?)

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Richard Paul McGehee (born 20 September 1943, in San Diego) is an American mathematician, who works on dynamical systems with special emphasis on celestial mechanics..

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McGehee received from Caltech in 1964 his bachelor's degree and from University of Wisconsin-Madison in 1965 his master's degree and in 1969 his Ph.D. under Charles C. Conley with thesis Homoclinic orbits in the restricted ...

## **Richard McGehee - Wikipedia**

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