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The Arithmetic Of Dynamical Systems

The Arithmetic of Dynamical Systems is a graduate level text designed to provide an entry into a new field that is an amalgamation of two venerable areas of mathematics, Dynamical Systems and Number Theory.

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"The Arithmetic of Dynamical Systems is intended for an audience of researchers and graduate students in number theory. ... The book could easily be used for a special-topics graduate course. ... will serve not only as an excellent introduction to the Diophantine aspects of dynamics for the uninitiated, but also as a valuable reference for experts in the field.

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The Arithmetic of Dynamical Systems | J.H. Silverman ...

The Arithmetic of Dynamical Systems is intended for an audience of researchers and graduate students in number theory. Silverman assumes the reader is familiar with Q and its finite extensions, is comfortable with Galois theory, and knows a little algebraic number theory and perhaps some algebraic geometry.

The Arithmetic of Dynamical Systems | Mathematical ...

A principal theme of arithmetic dynamics is that many of the fundamental problems in the theory of Diophantine equations have dynamical analogs. As is typical in any subject combining Diophantine problems and geometry, a fundamental goal is to describe arithmetic properties, at least qualitatively, in terms of underlying geometric structures.

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venerable areas of mathematics, Dynamical Systems and Number Theory. Many of the motivating theorems and conjectures in the new subject of Arithmetic Dynamics may be viewed as the transposition of classical results in the theory of Diophantine equations to the setting of discrete dynamical systems, especially to the iteration

The Arithmetic of Dynamical Systems

Dynamical Systems Dynamical systems is the branch of mathematics devoted to the study of systems governed by a consistent set of laws over time such as difference and differential equations. The emphasis of dynamical systems is the understanding of geometrical properties of trajectories and long term behavior.

Dynamical Systems - Department of Mathematics

Arithmetic dynamics is a field that amalgamates two areas of mathematics, dynamical systems and number theory. Classically, discrete dynamics refers to the study of the iteration of self-maps of the complex plane or real line. Arithmetic dynamics is the study of the number-theoretic properties of integer, rational,...

Arithmetic dynamics - Wikipedia

Arithmetic dynamics is a field that emerged in the 1990s that amalgamates two areas of mathematics, dynamical systems and number theory. Classically, discrete dynamics refers to the study of the iteration of self-maps of the complex plane or real line.

Dynamical systems theory - Wikipedia

Dynamical systems theory combines local analytic information, collected in small "neighbourhoods" around points of special interest, with global geometric and topological properties of... Poincaré showed that dynamic systems described by quite simple differential equations, such as the solar system,...

Dynamical systems theory | mathematics | Britannica

The Arithmetic of Dynamical Systems. This book is designed to provide a path for the reader into an amalgamation of two venerable areas of mathematics, Dynamical Systems and Number Theory.

The Arithmetic of Dynamical Systems - J.H. Silverman ...

To study dynamical systems mathematically, we represent them in terms of differential equations. The state of dynamical system at an instant of time is described by a point in an n -dimensional space called the state space (the dimension n depends on how complicated the systems is - for the double pendulum below, $n=4$).

Dynamical Systems | Applied Mathematics | University of ...

This book Silverman presents a thorough introduction to the dynamics of a rational function $\phi(z) \in K[z]$ acting on $P^1(K) := K \cup \{\infty\}$, where K is a number field. The Arithmetic of Dynamical Systems develops the relevant aspects of heights, canonical heights, complex dynamics, and non-archimedean dynamics from scratch.

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A principal theme of arithmetic dynamics is that many of the fundamental problems in the theory of Diophantine equations have dynamical analogs. As is typical in any subject combining Diophantine problems and geometry, a fundamental goal is to describe arithmetic properties, at least qualitatively, in terms of underlying geometric structures.

The arithmetic of dynamical systems (eBook, 2007 ...

Arithmetic Dynamics, which is the subject of these notes, is the study of arithmetic properties of dynamical systems. To give a "avor of arithmetic dynamics, here are two motivating questions that we will

Lecture Notes on Arithmetic Dynamics Arizona Winter School ...

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A principal theme of arithmetic dynamics is that many of the fundamental problems in the theory of Diophantine equations have dynamical analogs. As is typical in any subject combining Diophantine problems and geometry, a fundamental goal is to describe arithmetic properties, at least qualitatively, in terms of underlying geometric structures.

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The theory of dynamical systems is a very broad field closely intertwined with many other areas of mathematics. In particular, it has close relations with ergodic theory, probability theory, number theory, geometry, topology and mathematical physics.