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MEMORANDUM

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Memorandum 14 November 2014 P1 Physical Science

James Essig, Steve McCarter



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A Homology Theory for Smale Spaces Ian F. Putnam, 2014-09-29 The author develops a homology theory for Smale spaces which include the basic sets for an Axiom A diffeomorphism. It is based on two ingredients. The first is an improved version of Bowen's result that every such system is the image of a shift of finite type under a finite-to-one factor map. The second is Krieger's dimension group invariant for shifts of finite type. He proves a Lefschetz formula which relates the number of periodic points of the system for a given period to trace data from the action of the dynamics on the homology groups. The existence of such a theory was proposed by Bowen in the 1970s. *The Case for Pandora* James Essig, Steve McCarter, 2016-12-19 This book is about building craft for space travel: space travel that is not in the distant future but in the immediate future. There is no question that we have the technology to build and power large craft capable of traversing the galaxy and for now this book will focus on achieving the goal of intragalactic travel. We will describe various methods of power generation and propulsion, delineate the materials and technology for construction, discuss the building of the spacecraft from the outside in, and show what is required to sustain life on the craft for extended periods of time. While we will go into some detail on each of these, pointing out advantages and disadvantages to components and methods, this is not nor is it intended to be a highly technical book to be used by specialists. Rather, it is intended to inform the general readership about what is possible and perhaps what is not in building and operating spacecraft for long distance and long duration travel with current and available means.

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