

basic education

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NATIONAL SENIOR CERTIFICATE

GRADE 12

MIATH.I

MATHEMATICS PI

NOVEMBER 2014

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MORNING SESSION





Mathematics P1 November Memo 2014

Ian F. Putnam

Mathematics P1 November Memo 2014:

A Homology Theory for Smale Spaces Ian F. Putnam,2014-09-29 The author develops a homology theory for Smale spaces which include the basics 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

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