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In this monograph
the authors
introduce a new
method to study
bifurcations of
KAM tori with fixed

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Diophantine frequency in parameter-dependent Hamiltonian systems. It is based on Singularity Theory of critical points of a real-valued function which the authors call the potential. The

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potential is
constructed in
such a way that:
nondegenerate
critical points of
the potential
correspond to twist
invariant tori (i.e.
with
nondegenerate
torsion) and
degenerate critical

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points of the potential correspond to non-twist invariant tori. Hence, bifurcating points correspond to non-twist tori. It is known that certain one-dimensional nearest-neighbor random walks in

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i.i.d. random space-
time environments
have diffusive

scaling limits.

Here, in the

continuum limit,

the random

environment is

represented by a

'stochastic flow of

kernels', which is a

collection of

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random kernels
that can be loosely
interpreted as the
transition
probabilities of a
Markov process in
a random
environment. The
theory of
stochastic flows of
kernels was first
developed by Le

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Jan and Raimond,
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each such flow is
characterized by
its n -point motions.

The authors' work
focuses on a class
of stochastic flows
of kernels with
Brownian n -point
motions which,
after their

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inventors, will be called Howitt-Warren flows. The authors' main result gives a graphical construction of general Howitt-Warren flows, where the underlying random environment takes

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on the form of a
suitably marked
Brownian web.

This extends
earlier work of
Howitt and Warren
who showed that a
special case, the
so-called "erosion
flow", can be
constructed from
two coupled "sticky

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Brownian webs".
The authors'
construction for
general Howitt-
Warren flows is
based on a
Poisson marking
procedure
developed by
Newman,
Ravishankar and
Schertzer for the

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Brownian web.
Alternatively, the authors show that a special subclass of the Howitt-Warren flows can be constructed as random flows of mass in a Brownian net, introduced by Sun and Swart. Using

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these

constructions, the
authors prove

some new results
for the Howitt-
Warren flows.

Motivated by the
maximal subgroup
problem of the
finite classical
groups the authors
begin the

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classification of
imprimitive
irreducible

modules of finite
quasisimple
groups over
algebraically
closed fields K . A
module of a group
 G over K is
imprimitive, if it is
induced from a

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module of a proper
subgroup of G .

The authors obtain
their strongest
results when
 $\text{char}(K)=0$,
although much of
their analysis
carries over into
positive
characteristic. If G
is a finite

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quasisimple group
of Lie type, they
prove that an
imprimitive
irreducible KG -
module is Harish-
Chandra induced.
This being true for
 $\text{char}(K)$
different from the
defining
characteristic of G ,

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the authors
specialize to the
case $\text{char}(K)=0$
and apply Harish-
Chandra
philosophy to
classify irreducible
Harish-Chandra
induced modules
in terms of Harish-
Chandra series, as
well as in terms of

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Lusztig series. The authors determine the asymptotic proportion of the irreducible imprimitive KG -modules, when G runs through a series groups of fixed (twisted) Lie type. One of the surprising

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outcomes of their investigations is the fact that these proportions tend to 1, if the Lie rank of the groups tends to infinity. For exceptional groups G of Lie type of small rank, and for sporadic groups G , the authors

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determine all
irreducible
imprimitive KG-
modules for
arbitrary
characteristic of K .
The authors
provide a complete
classification of the
radial solutions to
a class of reaction
diffusion equations

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arising in the study of thermal structures such as plasmas with thermal equilibrium or no flux at the boundary. In particular, their study includes rapidly growing nonlinearities, that is, those where an

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exponent exceeds
the critical
exponent. They
describe the
corresponding
bifurcation
diagrams and
determine
existence and
uniqueness of
ground states,
which play a

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central role in
characterizing
those diagrams.

They also provide
information on the
stability-unstability
of the radial steady
states.

Rational Points
and Arithmetic of
Fundamental
Groups

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Stochastic Flows
in the Brownian

Web and Net

Stability of Line

Solitons for the KP-

II Equation in

\mathbb{R}^2

Quaternionic

Contact Einstein

Structures and the

Quaternionic

Contact Yamabe

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Problem
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A Homology
Theory for Smale
Spaces

The section
conjecture in
anabelian
geometry,
announced by
Grothendieck in
1983, is
concerned with a
description of

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the set of
rational points
of a hyperbolic
algebraic curve
over a number
field in terms
of the
arithmetic of
its fundamental
group. While the
conjecture is
still open today
in 2012, its
study has

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revealed
interesting
arithmetic for
curves and
opened
connections, for
example, to the
question whether
the Brauer-Manin
obstruction is
the only one
against rational
points on
curves. This

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monograph begins by laying the foundations for the space of sections of the fundamental group extension of an algebraic variety. Then, arithmetic assumptions on the base field are imposed and the local-to-

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global approach
is studied in

detail. The
monograph
concludes by
discussing
analogues of the
section
conjecture
created by
varying the base
field or the
type of variety,
or by using a

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characteristic
quotient or its
birational
analogue in lieu
of the
fundamental
group extension.
Let be the
automorphic
representation
of generated by
a full level
cuspidal Siegel
eigenform that

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is not a Saito-Kurokawa lift, and be an arbitrary cuspidal, automorphic representation of G . Using Furusawa's integral representation for combined with a pullback formula

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involving the unitary group, the authors prove that the L -functions are "nice". The converse theorem of Cogdell and Piatetski-Shapiro then implies that such representations have a functorial

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lifting to a
cuspidal
representation
of G . Combined
with the
exterior-square
lifting of Kim,
this also leads
to a functorial
lifting of π to a
cuspidal
representation
of G . As an
application, the

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authors obtain
analytic
properties of
various
-functions
related to full
level Siegel
cusp forms. They
also obtain
special value
results for and
Engineering
Mathematics
A stationary

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solution of the
rotating Navier-
Stokes equations
with a boundary
condition is
called an Ekman
boundary layer.

This book
constructs
stationary
solutions of the
rotating Navier-
Stokes-

Boussinesq

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equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon. The author calls such stationary solutions Ekman layers. This book shows the existence of a

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weak solution to
an Ekman

perturbed
system, which
satisfies the
strong energy
inequality.

Moreover, the
author discusses
the uniqueness
of weak
solutions and
computes the
decay rate of

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weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters. The author also shows that there exists a unique global-in-time strong solution of the perturbed system when the

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initial datum is
sufficiently

small. Comparing
a weak solution
satisfying the
strong energy
inequality with
the strong
solution implies
that the weak
solution is
smooth with
respect to time
when time is

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sufficiently
large.

Singularity
Theory for Non-
Twist KAM Tori
Weighted Bergman
Spaces Induced
by Rapidly
Increasing
Weights

Engineering
Mathematics
Volume - II (For
2nd Year of

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Mathematics
JNTU, Anantapur)
Paper1, November
2016
Faithfully

Quadratic Rings

Self-Affine

Scaling Sets in

\mathbb{R}^2

The authors

study

combinatorial

aspects of the

Schubert

calculus of the

affine

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Grassmannian
 $\{\mathrm{Gr}\}$
associated with
 $SL(n, \mathbb{C})$. Their main
results are: Pieri
rules for the
Schubert bases
of $H^*(\mathrm{Gr})$ and
 $H_*(\mathrm{Gr})$, which

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expresses the
product of a
special

Schubert class
and an arbitrary
Schubert class
in terms of
Schubert
classes. A new
combinatorial
definition for
 k -Schur

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functions, which
represent the
Schubert basis

of $H_*(\mathrm{Gr})$. A

combinatorial
interpretation of
the pairing

$H^*(\mathrm{Gr}) \times$

$H_*(\mathrm{Gr}) \rightarrow \mathbb{Z}$

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by Z induced
by the cap
product.

Motivated by a
question of
Vincent
Lafforgue, the
author studies
the Banach
spaces X
satisfying the
following

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property: there
is a function
 $\delta_X(\epsilon)$ tending to
zero with
 $\epsilon > 0$
such that every
operator
 $T \in L_2$ with
 $\|T\| \leq$

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$\|\cdot\|$ that is simultaneously contractive (i.e., of norm ≤ 1) on L_1 and on L_∞ must be of norm $\leq \Delta_X(\epsilon)$ on $L_2(X)$. The author shows

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that $\Delta X(\varepsilon) \in O(\varepsilon^\alpha)$ for some $\alpha > 0$ iff X is isomorphic to a quotient of a subspace of an ultraproduct of θ -Hilbertian spaces for

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some

$\theta > 0$ (see
Corollary 6.7),

where θ -
Hilbertian is

meant in a

slightly more
general sense

than in the

author's earlier
paper (1979).

Introduction

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Statement of
the results

Mixing time

preliminaries

Outline of the

proof of

Theorem 2.1

Random graph

estimates

Supercritical

case Subcritical

case Critical

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Case Fast
mixing of the
Swendsen-Wang
process on trees
Acknowledgeme
nts Bibliography
The author
proves
nonlinear
stability of line
soliton solutions
of the KP-II

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equation with
respect to
transverse

perturbations
that are
exponentially
localized as ϵ . He
finds that the
amplitude of the
line soliton
converges to
that of the line

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soliton at initial
time whereas
jumps of the
local phase shift
of the crest
propagate in a
finite speed
toward . The
local amplitude
and the phase
shift of the crest
of the line

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solitons are
described by a
system of 1D

wave equations
with diffraction
terms.

Complex
Interpolation
Between
Hilbert, Banach
and Operator
Spaces

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Mirror

Symmetry for
the Quartic
Surface

Generalized
Descriptive Set
Theory and
Classification
Theory

Cambridge
International AS

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and A Level
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Mathematics:
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Pure
Mathematics 2
and 3 Revised
Edition
Coursebook

**The authors
determine the
number of
level 1,**

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polarized,

algebraic

regular,

cuspidal

automorphic re

presentations

of GL_n over \mathbb{Q}

of any given

infinitesimal

character, for

essentially

all $n \geq 8$. For

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this, they
compute the
dimensions of

spaces of

level 1

automorphic

forms for

certain

semisimple Z -

forms of the

compact groups

S_07 , S_08 , S_09

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(and G2) and
Paper1 November
2010
determine
Arthur's

endoscopic
partition of
these spaces
in all cases.
They also give
applications
to the 121
even lattices
of rank 25 and

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determinant 2
found by
Borchers, to
level one self-
dual
automorphic re-
presentations
of GL_n with
trivial
infinitesimal
character, and
to vector

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valued Siegel
modular forms
of genus 3. A
part of the
authors'
results are
conditional to
certain
expected
results in the
theory of
twisted

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endoscopy.

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Click here to
view the

abstract. Intr

oductionProof

of Theorem 1.1

in the

caseProof of

Theorem 1.1 in

the caseAppend

ixBibliography

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and A Level
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Mathematics is
a revised
series to
ensure full
syllabus
coverage. This
coursebook has
been revised
and updated to
ensure that it
meets the

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requirements
for the
Mechanics 1

(M1) unit of
Cambridge AS
and A Level
Mathematics
(9709). This
revised
edition adds
clarifications
to sections on

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forces and
equilibrium,
kinematics of
motion in a
straight line
and Newton's
laws of
motion. All of
the review
questions have
been updated
to reflect

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changes in the
style of
questions
asked in the
course.

Let M be
either a
topological
manifold, a
Hilbert cube
manifold, or a
Menger

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manifold and
let D be an
arbitrary
countable
dense subset
of M . Consider
the
topological
group $\text{H}(M, D)$ which
consists of
all autohomeom

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orphisms of M
that map D
onto itself
equipped with
the compact-
open topology.
The authors
present a
complete
solution to
the
topological

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classification
problem for $\mathcal{H}(M, D)$
as follows. If
 M is a one-
dimensional
topological
manifold, then
they proved in
an earlier
paper that $\mathcal{H}(M, D)$

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is
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homeomorphic
to \mathbb{Q}^ω , the
 ω , the
countable
power of the
space of
rational
numbers. In
all other
cases they
find in this

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paper that $\mathcal{H}(M, D)$
is

homeomorphic
to the famed
Erdős space
 $\mathbb{R}^{\mathbb{Q}}$,
which consists
of the vectors
in Hilbert
space ℓ_2
with rational

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coordinates.
They obtain
the second
result by
developing
topological ch
aracterization
s of Erd?s
space.

Geometric
Complexity
Theory IV:

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**Nonstandard
Quantum Group
for the
Kronecker
Problem
The
Grothendieck
Inequality
Revisited
Affine
Insertion and
Pieri Rules**

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for the Affine
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Grassmannian

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Erdős Space

and

Homeomorphism

Groups of

Manifolds

Evidence for

the Section

Conjecture

The authors

study higher

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form Proca
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equations on
2010
Einstein

manifolds with
boundary data
along conformal
infinity. They
solve these
Laplace-type
boundary
problems
formally, and to

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all orders, by constructing an operator which projects arbitrary forms to solutions. They also develop a product formula for solving these asymptotic problems in general. The

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**central tools of
their approach
are (i) the
conformal
geometry of
differential forms
and the
associated
exterior tractor
calculus, and (ii)
a generalised
notion of scale**

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**which encodes
the connection
between the
underlying
geometry and its
boundary. The
latter also
controls the
breaking of
conformal
invariance in a
very strict way by**

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**coupling
conformally
invariant**

**equations to the
scale tractor
associated with
the generalised
scale.**

**Cambridge AS
and A Level
Mathematics is a
revised series to**

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**ensure full
syllabus
coverage. This
coursebook has
been revised and
updated to
ensure that it
meets the
requirements for
the Pure
Mathematics 2
and 3 (P2 and P3)**

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**units of
Cambridge AS
and A Level
Mathematics
(9709). Additional
materials have
been added to
sections on
logarithmic and
exponential
functions, the
derivative of tan**

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x and vectors. All of the review questions have been updated to reflect changes in the style of questions asked in the course.

The goal of this work is to propose a finite population

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**counterpart to
Eigen's model,
which**

**incorporates
stochastic
effects. The
author considers
a Moran model
describing the
evolution of a
population of
size of**

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chromosomes of length over an alphabet of cardinality . The mutation probability per locus is . He deals only with the sharp peak landscape: the replication rate is for the master

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**sequence and for
the other
sequences. He
studies the
equilibrium
distribution of
the process in
the regime where
Let be a simple
classical
algebraic group
over an**

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**algebraically
closed field of
characteristic
with natural
module . Let be a
closed subgroup
of and let be a
nontrivial
-restricted
irreducible
tensor
indecomposable**

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**rational -module
such that the
restriction of to
is irreducible. In
this paper the
authors classify
the triples of this
form, where and
is a disconnected
almost simple po
sitive-
dimensional**

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2010
**closed subgroup
of acting
irreducibly on .**

**Moreover, by
combining this
result with earlier
work, they
complete the
classification of
the irreducible
triples where is a
simple algebraic**

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**group over \mathbb{F}_q , and
is a maximal
closed subgroup
of positive
dimension.**

Level One

Algebraic Cusp

Forms of

Classical Groups

of Small Rank

Shock Waves in

Conservation

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**Laws with
Physical
Viscosity
Higher-Order
Time
Asymptotics of
Fast Diffusion in
Euclidean Space:
A Dynamical
Systems
Approach
Imprimitive**

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**Irreducible
Modules for
Finite
Quasisimple
Groups
Spectral Means
of Central Values
of Automorphic L-
Functions for
GL(2)**

The author
develops a

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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

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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

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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

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homology groups. The existence of such a theory was proposed by Bowen in the 1970s.

Unit I 1. Real
And Complex
Matrices And
Linear System
Of Equations 2.
Eigen Values

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And Eigen
Vectors 3.
Quadratic Forms
Unit Ii 4.
Solution Of
Algebraic And
Transcendental
Equations 5.
Interpolation
6. Curve
Fitting Unit
Iii 7.
Numerical

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Differentiation
And Integration

8. Numerical

Solution Of

Ordinary

Differential

Equations Unit

Iv 9. Fourier

Series 10.

Fourier

Transforms Unit

V 11. Partial

Differential

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Equations
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The author
proves
Kontsevich's
form of the
mirror symmetry
conjecture for
(on the
symplectic
geometry side)
a quartic
surface in \mathbb{C}^3 .

Descriptive set

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theory is
mainly
concerned with
studying
subsets of the
space of all
countable
binary
sequences. In
this paper the
authors study
the
generalization

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where countable
is replaced by
uncountable.

They explore
properties of
generalized
Baire and
Cantor spaces,
equivalence
relations and
their Borel
reducibility.

The study shows

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that the
descriptive set
theory looks
very different
in this
generalized
setting
compared to the
classical,
countable case.
They also draw
the connection
between the

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stability
theoretic
complexity of
first-order
theories and
the descriptive
set theoretic
complexity of
their
isomorphism
relations. The
authors'
results suggest

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that Borel
reducibility on
uncountable
structures is a
model
theoretically
natural way to
compare the
complexity of
isomorphism
relations.

Engineering
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Volume - III
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(Statistical
and Numerical
Methods) (For
1st Year - 2nd
Semester of
JNTU,
Hyderabad)
Irreducible
Almost Simple
Subgroups of
Classical
Algebraic

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Groups
Transfer of
Siegel Cusp
Forms of Degree
2
On Non-
Topological
Solutions of
the A_{2} and
 B_{2} Chern-
Simons System
Global and
Local

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Regularity of
Fourier
Integral

Operators on
Weighted and
Unweighted
Spaces

*The authors
study the
perturbation
of a shock
wave in*

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conservation
Paper1 November

laws with

2010

physical

viscosity.

They obtain

the detailed

pointwise

estimates of

the solutions.

In particular,

they show that

the solution

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converges to a
translated
shock profile.

The strength
of the
perturbation
and that of
the shock are
assumed to be
small but
independent.
The authors'

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*assumptions on
the viscosity
matrix are*

*general so
that their
results apply
to the Navier-
Stokes
equations for
the
compressible
fluid and the*

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*full system of
magnetohydrody
namics,
including the
cases of
multiple
eigenvalues in
the
transversal
fields, as
long as the
shock is*

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*classical. The
Paper1 November
2010
authors'
analysis*

depends on

accurate

construction

of an

approximate

Green's

function. The

form of the

ansatz for the

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*perturbation
is carefully
constructed
and is
sufficiently
tight so that
the author can
close the
nonlinear term
through
Duhamel's
principle.*

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The authors
construct
explicit
isomorphisms
between spaces
of Maass wave
forms and
cohomology
groups for
discrete
cofinite
groups

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$PSL_2(\mathbb{R})$. In
the case that
 Γ is the
modular group
 $PSL_2(\mathbb{Z})$ this
gives a
cohomological
framework for
the results in
Period
functions for
Maass wave

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forms. I, of
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J. Lewis and
D. Zagier in
Ann. Math. 153
(2001),
191–258, where
a bijection
was given
between
cuspidal Maass
forms and
period

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functions. The
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authors
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*introduce the
concepts of
mixed
parabolic
cohomology
group and semi-
analytic
vectors in
principal
series represe*

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*ntation. This
enables them
to describe
cohomology
groups
isomorphic to
spaces of
Maass cusp
forms, spaces
spanned by
residues of
Eisenstein*

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*series, and
spaces of all
-invariant
eigenfunctions
of the Laplace
operator. For
spaces of
Maass cusp
forms the
authors also
describe
isomorphisms*

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*to parabolic
cohomology
groups with
smooth
coefficients
and standard
cohomology
groups with
distribution
coefficients.
They use the
latter*

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correspondence
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to relate the
Petersson

scalar product
to the cup
product in
cohomology.

Cambridge AS
and A Level

Mathematics is
a revised
series to

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*ensure full
syllabus
coverage. This
coursebook has
been revised
and updated to
ensure that it
meets the
requirements
for the Pure
Mathematics 1
(P1) unit of*

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Cambridge AS
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2010
and A Level
Mathematics

(9709) .

*Additional
materials have
been added to
sections on
quadratics,
coordinate
geometry,
vectors and di*

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differentiation.

All of the

review

questions have

been updated

to reflect

changes in the

style of

questions

asked in the

course.

In this

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*monograph the
authors extend
the classical
algebraic
theory of
quadratic
forms over
fields to
diagonal
quadratic
forms with
invertible*

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entries over
Paper1 November
broad classes
2010
of

*commutative,
unitary rings
where i is not a
sum of squares
and i is
invertible.*

*They
accomplish
this by: (1)*

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*Extending the
classical
notion of
matrix*

*isometry of
forms to a
suitable
notion of
-isometry,
where is a
preorder of
the given*

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ring, , or .
Paper1 November
(2)
2010

*Introducing in
this context
three axioms
expressing
simple
properties of
(value)
representation
of elements of
the ring by*

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*quadratic
forms, well-
known to hold
in the field
case.*

Period

Functions for

Maass Wave

Forms and

Cohomology

Tame Flows

Nonlinear

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*Stability of
Ekman Boundary
Layers in*

*Rotating
Stratified
Fluids*

*A Power Law of
Order $1/4$ for
Critical Mean
Field Swendsen-
Wang Dynamics
Index Theory*

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Compact

*Noncommutative
Geometries*

The authors give a
characterization of the
internally

4 -connected binary
matroids that have no
minor isomorphic to
 $M(K_{3,3})$. Any
such matroid is either
cographic, or is

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isomorphic to a particular single-element extension of the bond matroid of a cubic or quartic Mobius ladder, or is isomorphic to one of eighteen sporadic matroids.

Starting with Green's functions on adèle points of considered over a totally real number field, the

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author elaborates an explicit version of the relative trace formula, whose spectral side encodes the information on period integrals of cuspidal waveforms along a maximal split torus. As an application, he proves two kinds of asymptotic mean formula for certain central ζ -values

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attached to cuspidal
waveforms with
square-free level.

Spectral triples for
nonunital algebras
model locally compact
spaces in
noncommutative
geometry. In the
present text, the
authors prove the
local index formula for
spectral triples over
nonunital algebras,

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without the assumption of local units in our algebra. This formula has been successfully used to calculate index pairings in numerous noncommutative examples. The absence of any other effective method of investigating index problems in geometries that are

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genuinely noncommutative, particularly in the nonunital situation, was a primary motivation for this study and the authors illustrate this point with two examples in the text. In order to understand what is new in their approach in the commutative setting the authors

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prove an analogue of the Gromov-Lawson relative index formula (for Dirac type operators) for even dimensional manifolds with bounded geometry, without invoking compact supports. For odd dimensional manifolds their index formula appears to be completely new.

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The classical
Grothendieck
inequality is viewed

as a statement about
representations of
functions of two
variables over
discrete domains by
integrals of two-fold
products of functions
of one variable. An
analogous statement
is proved, concerning
continuous functions

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2010

of two variables over
general topological
domains. The main

result is the

construction of a

continuous map

Φ from $C^2(A)$

into $L^2(\Omega_A,$

$\mathbb{P}_A)$,

where A is a set,

$\Omega_A =$

$\{-1, 1\}^A$, and

\mathbb{P}_A is

the uniform probability

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measure on
 Ω_A .

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Radial Solutions

Arising in the Study of

Thermal Structures

with Thermal

Equilibrium or No Flux

at the Boundary

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Poincare-Einstein
Holography for Forms
via Conformal

Geometry in the Bulk
Cambridge

International AS and
A Level Mathematics:
Pure Mathematics 1
Coursebook

A Complete
Classification of the
Isolated Singularities
for Nonlinear Elliptic
Equations with

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Inverse Square
Potentials

The Kronecker coefficient is the multiplicity of the λ -irreducible in the restriction of the μ -irreducible via the natural map π , where V and W are n -vector spaces and λ, μ are partitions of n . A fundamental open problem in algebraic combinatorics is to

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find a positive combinatorial formula for these coefficients. The authors construct two quantum objects for this problem, which they call the nonstandard quantum group and nonstandard Hecke algebra. They show that the nonstandard

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**quantum group has
a compact real form
and its**

**representations are
completely
reducible, that the
nonstandard Hecke
algebra is
semisimple, and that
they satisfy an
analog of quantum
Schur-Weyl duality.
The authors
investigate the**

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global continuity on spaces with of Fourier integral operators with smooth and rough amplitudes and/or phase functions subject to certain necessary non-degeneracy conditions. In this context they prove the optimal global boundedness result

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for Fourier integral operators with non-degenerate phase functions and the most general smooth Hörmander class amplitudes i.e. those in with . They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators

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***on weighted spaces,
with and (i.e. the
Muckenhoupt
weights) for
operators with
rough and smooth
amplitudes and
phase functions
satisfying a suitable
rank condition.
A partial solution of
the quaternionic
contact Yamabe
problem on the***

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*quaternionic sphere
is given. It is shown
that the torsion of
the Biquard
connection vanishes
exactly when the
trace-free part of the
horizontal Ricci
tensor of the
Biquard connection
is zero and this
occurs precisely on
3-Sasakian
manifolds. All*

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***conformal
transformations
sending the
standard flat torsion-
free quaternionic
contact structure on
the quaternionic
Heisenberg group to
a quaternionic
contact structure
with vanishing
torsion of the
Biquard connection
are explicitly***

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***described. A
"3-Hamiltonian
form" of
infinitesimal
conformal
automorphisms of
quaternionic contact
structures is
presented.***

***This paper
quantifies the speed
of convergence and
higher-order
asymptotics of fast***

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2019

***diffusion dynamics
on R^n to the***

***Barenblatt (self
similar) solution.***

***Degeneracies in the
parabolicity of this
equation are cured
by re-expressing the
dynamics on a
manifold with a
cylindrical end,
called the cigar. The
nonlinear evolution
becomes***

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differentiable in Hölder spaces on the cigar. The linearization of the dynamics is given by the Laplace-Beltrami operator plus a transport term (which can be suppressed by introducing appropriate weights into the function space norm), plus a

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finite-depth potential well with a universal profile. In the limiting case of the (linear) heat equation, the depth diverges, the number of eigenstates increases without bound, and the continuous spectrum recedes to infinity. The authors

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***provide a detailed
study of the linear
and nonlinear***

***problems in Hölder
spaces on the cigar,
including a sharp
boundedness
estimate for the
semigroup, and use
this as a tool to
obtain sharp
convergence results
toward the
Barenblatt solution,***

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and higher order asymptotics. In finer convergence results (after modding out symmetries of the problem), a subtle interplay between convergence rates and tail behavior is revealed. The difficulties involved in choosing the right functional spaces in which to carry out

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the analysis can be interpreted as genuine features of the equation rather than mere annoying technicalities.

The Internally 4-Connected Binary Matroids with No $M(K_{\{3,3\}})$ -Minor Critical Population and Error Threshold on the Sharp Peak Landscape for a

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Moran Model

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The tame flows

are ``nice''

flows on ``nice''

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**spaces. The
nice (tame) sets
are the pfaffian
sets introduced
by Khovanski,
and a flow
 $\Phi: \mathbb{R} \times
X \rightarrow X$
on pfaffian set
 X is tame if
the graph of
 Φ is a**

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**pfaffian subset
of \mathbb{R}
 $\times X \times$
 X . Any
compact tame
set admits
plenty tame
flows. The
author proves
that the flow
determined by
the gradient of
a generic real**

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2010

**analytic
function with
respect to a
generic real
analytic metric
is tame.**

**There exist
results on the
connection
between the
theory of
wavelets and
the theory of**

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integral self-affine tiles and in particular, on the construction of wavelet bases using integral self-affine tiles. However, there are many non-integral self-affine tiles which can also

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**yield wavelet
basis. In this
work, the
author gives a
complete
characterizatio
n of all one and
two
dimensional
-dilation scaling
sets such that is
a self-affine tile
satisfying for**

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**some R , where
is a integral
expansive
matrix with and
•**