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Geometry and
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Symplectic Geometry &
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topology is at the
crossroads of several
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algebraic geometry,
representation theory,
Hamiltonian dynamics,
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with a surprising
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terse and concise

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covering over 350
research papers, as
well as recent results
of the authors.

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work on a wide variety
of challenges in the
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a broad cross-section

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of the subject. The group's research in this area also interfaces with analysis, combinatorics, geometry, integrable systems, logic, topology, physics and other disciplines.

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Fomenko is the author of the theory of topological invariants

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of an integrable Hamiltonian system. He is the author of 180 scientific publications, 26 monographs and textbooks on mathematics, a specialist in geometry and topology, variational calculus, symplectic topology, Hamiltonian geometry and mechanics, and computational geometry. Fomenko is also the author of a number of books on

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**Anatoly Fomenko -
Wikipedia**

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and Topology at the
University of Glasgow
touches on a wide
range of highly active
subdisciplines,
benefiting from and
capitalizing on strong

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overlap with the
Algebra, Analysis, and
Integrable Systems and
Mathematical Physics
research groups within
the School of
Mathematics and
Statistics.

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Mathematics ...**

way in Symplectic Field
Theory are in general
integrable systems (it
is so for all explicitly

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known cases, which are indeed quite few) and, if not, to investigate the topological properties of the target space which ensure completeness of such systems. Even more, the other Hamil-

[tel-00690265, v1] Symplectic topology, mirror symmetry ...

- Symplectic Geometry and Integrable Systems (W16, Burns) •

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Teichmuller Space vs Symmetric Space (W16, Ji) • Dynamics and geometry (F15, Spatzier) • Teichmuller Theory and its Generalizations (F15, Canary) Seminars. The geometry/topology group has five seminars held weekly during the Fall and Winter terms.

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Focuses on topology and physics. This work is suitable for graduate students and researchers interested in integrable systems and their relations to differential geometry, topology, algebraic geometry and physics.

**Integrable Systems,
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Physics. (eBook,
2002 ...**

Integrable Systems and
Algebraic Geometry:

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Systems
Volume 1 - Ron Donagi,
Tony Shaska - ISBN:
9781108715744.

Created as a
celebration of
mathematical pioneer
Emma Previato, this
comprehensive book
highlights the
connections between
her main fields of
research, namely
algebraic geometry
and integrable
systems. Written by
leaders in the field, the
text is accessible to

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graduate students and
non-experts ...

Topology Amsip

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and Algebraic**

Geometry: Volume 1

- Ron ...

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Mathematics

I will give an informal
overview of the history
and status of my field.

Local invariants of
Riemannian metrics
are called curvature,
the weakest of which is
known as "scalar
curvature." The study
of metrics with positive

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scalar curvature is very rich with >100 year old connections to General Relativity and smooth topology. Does this geometric condition have topological

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