Topic 1

(Categories) *Mathematics_awards*, *Mathematicians_by_award*, *Mathematicians_by_nationality*, *Mathematicians_by_field*

(Entities) `John Cedric Griffiths Teaching Award`, `Santosh Vempala`, `Aisenstadt Prize`, `Subhash Suri`, `David P. Dobkin`

(Phrases) university of california, american mathematical society, professor of mathematics, princeton university, computer science, harvard university, american mathematician, stanford university, massachusetts institute of technology, columbia university

Topic 2

(Categories) *Geometry_stubs*, *Differential_geometry_stubs*, *Elementary_geometry_stubs*, *Polyhedron_stubs*

(Entities) `Enneadecahedron`, `Icosahedral pyramid`, `Expanded icosidodecahedron`, `Pentadecahedron`, `Cubic cupola`

(Phrases) three dimensional, platonic solids, johnson solids, uniform polyhedron compound, symmetry group, regular dodecahedron, triangular faces, vertex figure, nonconvex uniform polyhedron, four dimensional

Topic 3

(Categories) *Topology_stubs*, *Knot_theory_stubs*, *Theorems_in_topology*, *Theorems_in_algebraic_topology*

(Entities) `Knot operation`, `Chromatic homotopy theory`, `Infinite loop space machine`, `Simple space`, `Base change map`

(Phrases) topological space, algebraic topology, category theory, topological spaces, fundamental group, simply connected, homotopy theory, 3 manifold, 3 manifolds, knot theory

Topic 4

(Categories) *Cryptography_stubs*, *Cryptography*, *Combinatorics_stubs*, *Number_stubs*

(Entities) `PC1 cipher`, `PKCS 8`, `KR advantage`, `Ccrypt`, `BEAR and LION ciphers`

(Phrases) dual ec drbg, block cipher, sha 1, public key, hash function, stream cipher, escape wheel, balance wheel, secret key, private key

Topic 5

(Categories) *Algebra_stubs*, *Abstract_algebra_stubs*, *Linear_algebra_stubs*, *Theorems_in_algebra*

(Entities) `C-closed subgroup`, `Torsion abelian group`, `Fixed-point subgroup`, `Change of rings`, `Acceptable ring`

(Phrases) algebraic geometry, group theory, abstract algebra, finite group, finitely generated, abelian group, finite groups, galois group, commutative ring, normal subgroup