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to the remarkable work of Vaughan
Jones and Victor Vassiliev on knot
and link invariants and its recent
modifications and generalizations,
including a mathematical treatment of
Jones-Witten invariants. It emphasizes
the geometric aspects of the theory
and treats topics such as braids,
homeomorphisms of surfaces, surgery
of 3-manifolds (Kirby calculus), and

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By (author) V.V. Prasolov , By (author)
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introduction to the remarkable work
of Vaughan Jones and Victor Vassiliev
on knot and link invariants and its
recent modifications and
generalizations, including a
mathematical treatment of Jones-
Witten invariants. It emphasizes the
geometric aspects of the theory and
treats topics such as braids,
homeomorphisms of surfaces, surgery
of 3-manifolds (Kirby calculus), and
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Knots, Links, Braids A knot is a simple
closed curve (homeomorphic image of
 $S(1)$) in Euclidean 3-space $E(3)$. Two
knots are called equivalent when
there is an orientation-preserving
homeomorphism of $E(3)$ onto itself
sending one knot to the other.

Algebraic Topology: Knots, Links,
Braids

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and 3-manifolds: an ..

Knots, Links and Braids 2.1 Knots and
Links A knot K is a smooth or
piecewise linear embedding of a
closed curve in a 3-dimensional
manifold. Usually, the manifold of
choice is either \mathbb{R}^3 or S^3 , so that the
knot K may be denoted $S^1 \hookrightarrow \mathbb{R}^3 \text{ or } S^3$:
While it is important to remember
that we are dealing with curves in 3-

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knots and links. Closed 8-braid vs

closed 3-braid for type (5,3) torus

knot. Some special properties of

Lorenz knots and links [B-W, 1983]:

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All Lorenz links are prime, and are
bered. Link genus determined
combinatorially. $2g = c_n + 2$. Braid
index is too. If $W = \prod_{i=1}^n (R_n - L_m)$,
then $t =$ braid index.

Mathematical Monographs
Lorenz knots and links - Columbia
University

In mathematical knot theory, a link is
a collection of knots which do not
intersect, but which may be linked (or
knotted) together. A knot can be
described as a link with one
component. Links and knots are
studied in a branch of mathematics
called knot theory. Implicit in this
definition is that there is a trivial
reference link, usually called the
unknot, but the word is also sometimes
used in ...

Link (knot theory) - Wikipedia

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A trivial link would have 125 Fox 5-colorings (one for each choice of color for each of the three links), but the Borromean rings have only five.

Number theory. In arithmetic topology, there is an analogy between knots and prime numbers in which one considers links between primes.

Borromean rings - Wikipedia

Knots and Braids September 7 - 11, 2020 Marithania Silvero Universidad de Huelva Abstract A (mathematical) knot is a subset of points $K \subset \mathbb{R}^3$ homeomorphic to a circle. We can imagine a knot as a knotted piece of string with both endpoints glued together. Ambient isotopy is an equivalence ... Knots and Links. Publish or Perish, 1976.

Knots and Braids - ICMAT

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alternating, hyperbolic, fibered, prime,
fully amphichiral. In knot theory, the
63 knot is one of three prime knots
with crossing number six, the others
being the stevedore knot and the 6 2
knot. It is alternating, hyperbolic, and
fully amphichiral . It can be written as
the braid word.

6 knot - Wikipedia

The Berkley Braid Knot . Fold over the
end of the line so you have 5-6 inches
of doubled line, making a loop. Thread
the end of the doubled line loop
through the eye. Squeeze the end of
the loop to form a point, this 'll make
this step much easier; Wrap the loop
around the tag-end and the mainline 8
times. Start from the top and wrap
towards the eye.

The Best Braided Line Knots For

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Fishing (Step-By-Step Guide)

In knot theory, the trefoil is the first nontrivial knot, and is the only knot with crossing number three. It is a prime knot, and is listed as 3_1 in the Alexander-Briggs notation. The Dowker notation for the trefoil is 4_6^2 , and the Conway notation is $[3]$. The trefoil can be described as the $(2,3)$ -torus knot.

Trefoil knot - Wikipedia

MATH 7375, Topics in Topology,
Spring 2016 2 H.Geiges, An

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Topology, Cambridge University Press,

2008. These references will be

available on 3-hour reserve in Snell
Library. I will also

Topics in Topology: Knots and Three-
Manifolds

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The knot complement of the Hopf link is $\mathbb{R} \times S^1 \times S^1$, the cylinder over a torus. This space has a locally Euclidean geometry, so the Hopf link is not a hyperbolic link. The knot group of the Hopf link (the fundamental group of its complement) is \mathbb{Z}^2 (the free abelian group on two generators), distinguishing it from an unlinked pair of loops which has the free group on two generators as ...

Hopf link - Wikipedia

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