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Knots Links Braids And 3

FK arXiv:2004.02087v1 [math.GT] 5 Apr 2020

1 day ago · K for many knots and links beyond positive braids, including positive double twist knots, bered strongly quasi-positive knots up to 10 crossings, and the Whitehead link Based on our examples of F K for some links, we extend the Conjectures1and2to links These conjectures will be

illustrated through various non-trivial examples Conjecture 3

Knots, Links and Braids.

1 KNOTS, LINKS, 3-MANIFOLDS AND CHERN-SIMONS THEORY 11 Knots, Links and Braids A topological knot is a continuous embedding of the circle S1 into R3, that is, a continuous, injective map K : S1!R3 of S1 into R3 Since S1 is compact and R3 is Hausdorff, K …

KNOTS, GROUPS, AND 3-MANIFOLDS Papers Dedicated to the …

which knots are determined by their complement in the 3-sphere,and whether a s imply connected manifold is obtainable from S3 by surgery on a knot There are three sections In the first, symmetry of links is defined, and a method for constructing fibered links is presented It is shown how

An introduction to knot theory Knot theory Knots, links …

Cromwell: Knots and links by Peter Cromwell Lickorish: An introduction to knot theory by WBRaymond Lickorish Murasugi: Knot theory by Kunio Murasugi Prasolov-Sossinsky: Knots, links, braids and 3-manifolds by VVPrasolov and ABSossinsky Rolfsen: Knots and links by Dale Rolfsen Outline and References: Note: The text in Red shows hyperlinks

ALGORITHM OF CONSTRUCTION OF ALL KNOTS, LINKS …

2-3 braids with minimum word length (minimum amount of crosses), as a result of closure of selected braids we shall receive diagrams of knots (links) with minimum number of crosses As a result of work of suggested algorithm we shall build all knots and links, which diagrams have m 6 n crosses Therefore, if we are interested

KNOTS, TANGLES AND BRAID ACTIONS by LIAM THOMAS …

Knots, Links and Braids 21 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 M3 or S3, so that the knot K may be denoted S1 «-»• R3 C S3 While it is important to …

Braids, the Artin Group, and the Jones Polynomial

lence in braids with ambient isotopy in links or knots Theorem 2 (Markov's Theorem) Let βn ∈ Bn and β′ m ∈ Bm be two braids in the braid groups Bn and Bm respectively Then the links (closures of the braids βn, β ′ m) L = βn and L′ = β m are ambient isotopic if and only if …

KNOTS, TANGLES AND BRAID ACTIONS

Knots, Links and Braids 21 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 R3 or S3, so that the knot K may be denoted S1,! R3 ˆ S3: While it is important to remember that we are dealing with curves in 3-

TopicsinTopology:KnotsandThree-Manifolds

MATH 7375, Topics in Topology, Spring 2016 2 HGeiges,An Introduction to Contact Topology,CambridgeUniversityPress, 2008 These references will be available on 3-hour reserve in Snell Library I will also

A note on closed 3-braids - Columbia University

A note on closed 3-braids Joan S Birmanyand William W Menascoz May 13, 2008 Dedicated to the memory of Xiao-Song Lin Abstract This is a review article about knots and links of braid index 3

INTRODUCTION TO KNOTS AND BRAIDS USING SEIFERT …

INTRODUCTION TO KNOTS AND BRAIDS USING SEIFERT CIRCLES 7 Every braid can be made into a closed braid, which can then be deformed into other types of knots Surprisingly, every knot projection can also be deformed into a closed braid Theorem 43 Every knot has a closed braid

representation

On positivities of links: an investigation of braid ...

braids, Xu's NP-form 3-braids, and establish several bounds We also conjecture a formula for the signature of NP-form 3-braids which uses a new and easily computable NP-form 3-braid invariant, the o set Finally, the appendices provide lists of all quasipositive and strongly quasipositive knots with at most 12 crossings (with two exceptions

THREE-VARIABLE BRACKET POLYNOMIAL FOR THREE BRAID ...

THREE-VARIABLE BRACKET POLYNOMIAL FOR THREE BRAID KNOTS AND LINKS 7 We know the value of (c 1 +c 3)(c 2 +c 4) = xy where where x and y are the total number of A-crossings and B-crossings from looking at dm, where m is the highest degree of d Using this piece of information and the theorem of prime factorization, every integer is the

Knots, Links, Braids and Exactly Solvable Models in ...

we present a general method to construct topological invariants for knots and links by using the theory of exactly solvable models in statistical mechanics We begin with the braid and the braid

Volume Comparison of 3-Braided Links with Dehn Fillings

Volume Comparison of 3-Braided Links with Dehn Fillings Vanessa Vega August 19, 2016 Abstract This project focuses on braids, speci cally 3-braided links We start by explaining what braids and closed braids are, followed by de ning Dehn llings Our goal is to compare the volumes of these 3-braided links under various Dehn llings

Knot Theory - ResearchGate

i To my mother, Elena Ivanovna Manturova Gelegentlich ergreifen wir die Feder Und schreiben Zeichen auf ein weiˇes Blatt, Die sagen dies und das, es kennt sie jeder,

October 25, 2008 15:48 WSPC/152-CCM 00315 ...

October 25, 2008 15:48 WSPC/152-CCM 00315 Communications in Contemporary Mathematics This is a review article about knots and links of braid index 3 Its goal is to gather together, in one place, some of the tools that are special to knots and links of braid Knots and links which are closed 3-braids are a very special class Like 2-bridge

Maypole Braids: An Analysis Using the Annular Braid Group

Maypole Braids: An Analysis Using the Annular Braid Group by Moyi Tian The study of braids started in the early 20th century with the motivation of revealing properties of knots and links The Artin braid group gives an algebraic tool to analyze the braid actions and the equivalence of braids Later, a variation of ordinary braids, the

ALGORITHM OF CONSTRUCTION OF ALL KNOTS, LINKS ...

2-3 braids with minimum word length (minimum amount of crosses), as a result of closure of selected braids we shall receive diagrams of knots (links) with minimum number of crosses As a result of work of suggested algorithm we shall build all knots and links, which diagrams have m6 ncrosses Therefore, if we are interested

1 Personal information 2 Education and Appointment 3 ...

The self linking number of transverse links and the Johnson-Morita homomorphism 23\Geometric Topology of Knots and 3-manifolds" AMS sectional meeting at Temple University, October 13, 2013 The self-linking number of transverse links and sharpness of Bennequin-Eliashberg inequality