

knot theory and algebra - \tilde{A}, \hat{A} » department of mathematics - be an algebraic knot theory with success comparable to that of algebraic topology. the solution is to enlarge our domain space to also include knotted graphs, or more specifically, for a technical reason, knotted trivalent graphs (ktgs). **lectures on knot homology - arxiv** - algebraic structure of bps states , geometric representation theory through the recent developments [os10,gor12,gors14] in mathematics, it turns out that the underlying structure of torus knot homology is governed by the rational cherednik **rational structure on algebraic tangles and closed ...** - tangles lead to an algebraic structure which is isomorphic to the rational numbers. we introduce a new knot and link class, algebraically alternating knots and links, roughly speaking which are constructed from alternating knots and links by replacing some **on a universal finite type invariant of knotted trivalent ...** - knot theory is not generally considered an algebraic subject, due to the fact that knots do not $\in \hat{A}^{TM}$ have much algebraic structure: there are a few operations defined on them (such as connected sum and cabling), but these do not $\in \hat{A}^{TM}$ nearly make the space of knots nitely **introduction real algebraic knot theory.** - self-linking number of real algebraic link 3 1.2. self-linking of non-algebraic knot. the linking number is a well-known numerical characteristic of a pair of disjoint oriented circles embedded in the three- **an algebraic approach to symmetry with applications to ...** - an algebraic approach to symmetry with applications to knot theory abstract the usual algebraic construction used to study the symmetries of an object is the group of ... **some examples related to knot sliceness - maths.ed** - structure called the algebraic knot concordance group, and using it to solve the problem in dimension at least 4. while while the algebraic concordance group is of fundamental importance also in dimension 3, casson and gordon [5] showed **an introduction to knot floer homology and curved bordered ...** - to a knot projection can be interpreted combinatorially as follows. let k be an oriented knot in S^3 , and suppose that $v \subset \mathbb{R}^2$ is an oriented planar projection of k . **so3(r)-representation curves for two-bridge knot groups** - $vs \sim ir^4$ is an affine algebraic set and $\sim(g)$ inherits an algebraic structure which does not depend on the finite set s of generators. let g be a knot group. **a classifying invariant of knots, the knot quandle david joyce** - the knot quandle 39 quandle structure in which each point is an isolated fixed point of the symmetry through it. related to involutory quandles are n -quandles.

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