

# Algebraic Structure Of Knot Modules

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### **ALGEBRAIC STRUCTURES - BARD COLLEGE**

*Wed, 26 Apr 2017 17:10:00 GMT*

algebraic structures abstract algebra is the study of algebraic structures. such a structure consists ... with integer entries forms a module, ...

### **ALGEBRAIC STRUCTURE - WIKIPEDIA**

*Sat, 06 May 2017 20:47:00 GMT*

... and more specifically in abstract algebra, an algebraic structure is ... which also carries a multiplication operation that is compatible with the module structure.

### **SKEIN MODULES AND THE NONCOMMUTATIVE TORUS**

*Tue, 09 May 2017 15:00:00 GMT*

the noncommutative torus is an algebra of ... skein modules, noncommutative ... the algebra structure of the skein module of the solid torus is not ...

### **1 ARXIV:MATH/0402304V1 [MATH] 18 FEB 2004**

*Sun, 07 May 2017 00:43:00 GMT*

in knot theory, skein modules (building blocks of algebraic topology based on knots) ... algebra structure, associated lie algebra, hopf algebra, quantization, ...

### **TIMELINE OF CATEGORY THEORY AND RELATED MATHEMATICS ...**

*Mon, 08 May 2017 05:14:00 GMT*

timeline of category theory and related mathematics ... of knot invariants by skein modules. ... of sets is an algebraic structure on the one hand and ...

### **KNOTS IN HELLAS '98 : THE KONTSEVICH INTEGRAL AND ...**

*Mon, 05 Dec 2016 06:29:00 GMT*

space of the kontsevich integral for knots is a space ... has a rich algebraic structure, ... elements in a has the structure of a module over vogel's algebra a.

### **POISSON STRUCTURES ON THE HOMOLOGY OF THE SPACE OF KNOTS**

*Mon, 28 Sep 2015 07:05:00 GMT*

poisson structures on the homology of the space of knots ... in this article we study the poisson algebra structure on the homology of ... the modules of singular ...

### **ARXIV:MATH/9806107V1 [MATH] 19 JUN 1998 - RESEARCHGATE**

*Sun, 09 Apr 2017 08:12:00 GMT*

this paper introduces a new direction in the study of skein modules. the kau?man bracket [9] is a knot ... the algebra structure of the skein module of the ...

### **ARXIV:MATH/9909151V3 [MATH] 22 FEB 2000**

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space of the kontsevich integral for knots is a space ... has a rich algebraic structure, ... in a has the structure of a module over vogel's algebra

**CITSEERX — CITATION QUERY A SURVEY OF SKEIN MODULES OF 3 ...**

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a survey of skein modules of 3-manifolds. knots 90 ... skein modules are the main objects of an algebraic topology ... in a manifold and their algebraic structure.

**OF KNOTS ARXIV:MATH/0608326V4 [MATH] 28 NOV 2007**

*Sat, 12 Dec 2015 19:05:00 GMT*

of knots keiichi sakai ... so there exists a poisson algebra structure on h ... tion (de?ned below) on a double complex  $s^*(ro\bullet)$ , the modules of singular chains

**OF KNOTS ARXIV:MATH/0608326V2 [MATH] 6 OCT 2006**

*Wed, 06 Apr 2016 21:48:00 GMT*

algebra structure on the hochschild homology, ... a long knot is an embedding  $r_1 \rightarrow r_n$ , ... the modules of singular chains of  $x$  ...

**TWO APPLICATIONS OF ELEMENTARY KNOT THEORY TO LIE ALGEBRAS ...**

*Mon, 27 Mar 2017 22:53:00 GMT*

1.2 elementary knot theory ..... 4 ... structure), all known proofs of ... algebra structure ...

**BV-STRUCTURES ON THE HOMOLOGY OF THE FRAMED LONG KNOT ...**

*Tue, 26 May 2015 23:59:00 GMT*

we introduce bv-algebra structures on the homology of the space of framed long knots ... a bv-algebra structure on ... a cosimplicial module structure; ...

**OF KNOTS ARXIV:MATH/0608326V1 [MATH] 14 AUG 2006**

*Fri, 12 Aug 2016 03:31:00 GMT*

poisson algebra structure of the homology of the space. ... 1. overview a long knot is an embedding  $r_1 \rightarrow r_n$ ,  $n \geq 3$ , ... the modules of singular chains of  $x$  ...

**TENSOR CATEGORIES AND THE MATHEMATICS OF RATIONAL AND ...**

*Tue, 19 Nov 2013 23:56:00 GMT*

tensor categories and the mathematics of rational and logarithmic conformal field theory. ... for rational and logarithmic conformal field ... algebra modules ...

**RIBBON STRUCTURE IN SYMMETRIC PRE-MONOIDAL CATEGORIES - ARXIV**

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ribbon structure in symmetric pre-monoidal categories ... -modules. 1. introduction recently ... preserve the ribbon algebra structure which provides an initial ...

**TWO-DIMENSIONAL TOPOLOGICAL QUANTUM FIELD THEORIES AND ...**

*Sun, 02 Jul 1995 23:53:00 GMT*

... of frobenius algebra structure ... two-dimensional topological quantum field theories ... two-dimensional topological quantum field theories.

**NONCOMMUTATIVE TRIGONOMETRY AND THE A-POLYNOMIAL OF THE ...**

*Mon, 03 Apr 2017 23:49:00 GMT*

noncommutative trigonometry and the a-polynomial ... noncommutative trigonometry and the a-polynomial 3 ... the skein module has an algebra structure induced by the ...

**POISSON STRUCTURES ON THE HOMOLOGY OF THE SPACE OF KNOTS**

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poisson structures on the homology of the space of knots ... in this article we study the poisson algebra structure on the homology of the ... the modules of singular ...

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knots and physics download knots and ... an introduction to the hopf algebra structure of ... algebraic topology relevant to knot theory. the theory of skein modules ...

**BATALIN-VILKOVISKY STRUCTURES ON THE HOMOLOGY OF THE ...**

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batalin-vilkovisky structures on the homology of the framed long knot space ... in particular the algebraic structure of (co) ...

**BV-STRUCTURES ON THE HOMOLOGY OF THE FRAMED LONG KNOT SPACE**

*Sun, 30 Apr 2017 11:14:00 GMT*

bv-structures on the homology of the framed ... namely we de?ne a bv-algebra structure on the ... bv-structures on the homology of the framed long knot space ...

**SKEIN MODULES, AJ CONJECTURE AND KNOT STATE ASYMPTOTICS**

*Thu, 11 May 2017 11:59:00 GMT*

skein modules, aj conjecture and knot state ... 2.4 knot invariants ...  $t=2$ ) induces an algebra structure on  $k(s [0;1 ...$

**RINGS, MODULES, AND ALGEBRAS IN STABLE HOMOTOPY THEORY**

*Thu, 11 May 2017 05:39:00 GMT*

rings, modules, and algebras in stable homotopy theory a.d.elmendorf, iiz, m.a. mandell, and j.py