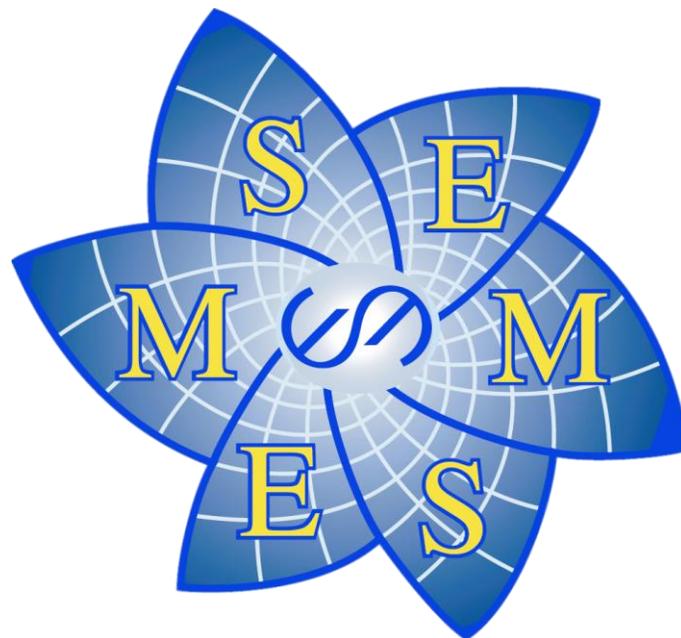




European Mathematical Society (EMS)

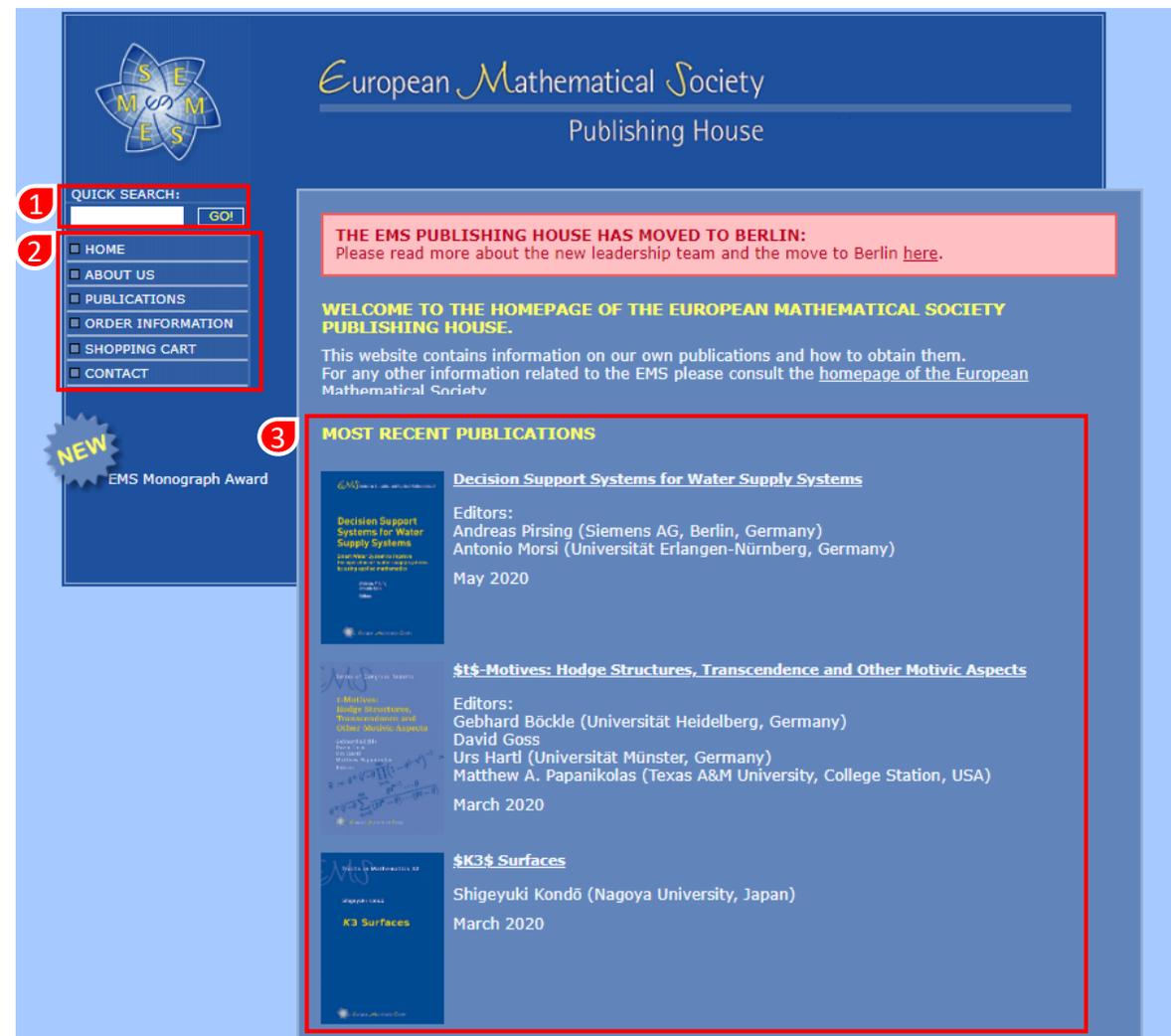
- A EMS Publishing House é uma organização sem fins lucrativos dedicada à publicação de periódicos de alta qualidade com revisão por pares e livros de alta qualidade.



- Um editora voltada para a área de pesquisa nos campos da matemática pura e aplicada que atende a todos os níveis acadêmicos.

A página inicial da editora é dividida em três partes:

1. Caixa de pesquisa básica
2. Barra lateral de navegação
3. Destaques



A página de pesquisa avançada é dividida em duas partes.

Busca por:

1. Livros
2. Livros e artigos

European Mathematical Society
Publishing House

QUICK SEARCH:

1

SEARCH BOOKS BY:

Series:

Topics:

Authors: min 2 chars

Alternatively you can browse our [author index](#)

Titles: min 3 chars

Alternatively you can browse our [title index](#)

2

SEARCH BOOK AND JOURNAL ARTICLES BY:

Authors: min 2 chars

Titles: min 3 chars

Keywords: min 3 chars

Search tips:

- Search fields are independent and cannot be combined.
- Search for "no series" produces all titles published outside any series.
- The list of topics follows the 2000 Subject Classification scheme. Fields are listed only if relevant to any of the books in print.
- Authors' last names are searched at their beginning for any given string of length greater than one. For a complete alphabetical listing of authors and editors of books click the [author index](#).
- Titles are searched anywhere for any given string of length greater than two. For a complete alphabetical listing of book titles click the [title index](#).

A página de resultados é dividida em duas partes.

Resultados de:

1. Livros
2. Artigos

European Mathematical Society
Publishing House

QUICK SEARCH:

- HOME
- ABOUT US
- PUBLICATIONS
- Search**
- Books
- e-Books
- Journals
- Oberwolfach Reports
- EMS Newsletter
- ORDER INFORMATION
- SHOPPING CART
- CONTACT

BOOK AND JOURNAL ARTICLES BY TITLE
Search in title for: **polynomials**
Search page

Book articles (10 found)

1. Sasajima, Ohmoto: Thom polynomials in A^1 -classification I: counting singular projections of a surface (In: Schubert Varieties, Equivariant Cohomology and Characteristic Classes, Pub: 2018)
2. Tamvakis: Schubert polynomials and degeneracy locus formulas (In: Schubert Varieties, Equivariant Cohomology and Characteristic Classes, Pub: 2018)
3. Aghigh et al.: A study of irreducible polynomials over henselian valued fields via distinguished pairs (In: Valuation Theory in Interaction, Pub: 2014)
4. Durhan: Additive polynomials over perfect fields (In: Valuation Theory in Interaction, Pub: 2014)
5. Bérczi: Moduli of map germs, Thom polynomials and the Green–Griffiths conjecture (In: Contributions to Algebraic Geometry, Pub: 2012)
6. Öztürk, Pragacz: On Schur function expansions of Thom polynomials (In: Contributions to Algebraic Geometry, Pub: 2012)
7. Gorodetski, Hunt, Kaloshin: Newton interpolation polynomials, discretization method, and certain prevalent properties in dynamical systems (In: Proceedings of the International Congress of Mathematicians Madrid, August 22–30, 2006, Pub: 2007)
8. Haiman: Cherednik algebras, Macdonald polynomials and combinatorics (In: Proceedings of the International Congress of Mathematicians Madrid, August 22–30, 2006, Pub: 2007)
9. Mustață, Takagi, Watanabe: F-thresholds and Bernstein–Sato Polynomials (In: European Congress of Mathematics Stockholm, June 27 – July 2, 2004, Pub: 2005)
10. Totik: Equilibrium Measures and Polynomials (In: European Congress of Mathematics Stockholm, June 27 – July 2, 2004, Pub: 2005)

Journal articles (112 found)

1. Leveson, Rutherford: Satellite ruling polynomials, DGA representations, and the colored HOMFLY-PT polynomial (QT 2020)
2. Reis: On the factorization of iterated polynomials (RMI online 2020-03-16)
3. Amini: The exchange graph and variations of the ratio of the two Symanzik polynomials (AIHPD 2019)
4. Lemmermeyer: Composite values of irreducible polynomials (EM 2019)

A página do artigo é dividida em duas partes:

1. Download em PDF
2. Título e Informações do artigo

The screenshot shows the article page for 'QUANTUM TOPOLOGY'. The page is divided into two main sections as indicated by the numbered callouts:

- 1**: A red box highlights the 'Full-Text PDF (670 KB)' link in the top navigation bar.
- 2**: A larger red box highlights the article's title, authors, and abstract.

QUANTUM TOPOLOGY
Full-Text PDF (670 KB) | Metadata | Table of Contents | QT summary

Volume 11, Issue 1, 2020, pp. 55–118 DOI: 10.4171/QT/133
Published online: 2020-02-24

Satellite ruling polynomials, DGA representations, and the colored HOMFLY-PT polynomial

Caitlin Leverson^[1] and Dan Rutherford^[2]

(1) Georgia Institute of Technology, Atlanta, USA
(2) Ball State University, Muncie, USA

We establish relationships between two classes of invariants of Legendrian knots in \mathbb{R}^3 : representation numbers of the Chekanov–Eliashberg DGA and satellite ruling polynomials. For positive permutation braids, $\beta \in J^1 S^1$, we give a precise formula in terms of representation numbers for the m -graded ruling polynomial $R_{S(K,\beta)}^m(z)$ of the satellite of K with β specialized at $z = q^{1/2} - q^{-1/2}$ with q a prime power, and we use this formula to prove that arbitrary m -graded satellite ruling polynomials, $R_{S(K,L)}^m$, are determined by the Chekanov–Eliashberg DGA of K . Conversely, for $m \neq 1$, we introduce an n -colored m -graded ruling polynomial, $R_{n,K}^m(q)$, in strict analogy with the n -colored HOMFLY-PT polynomial, and show that the total n -dimensional m -graded representation number of K to \mathbb{R}_q^m , $\text{Rep}_m(K, \mathbb{R}_q^m)$, is exactly equal to $R_{n,K}^m(q)$. In the case of 2\ndash graded representations, we show that $R_{n,K}^2(q) = \text{Rep}_2(K, \mathbb{R}_q^m)$ arises as a specialization of the n -colored HOMFLY-PT polynomial.

Keywords: Legendrian knot, ruling polynomial, Chekanov–Eliashberg DGA, representation, colored HOMFLY-PT polynomials

Leverson Caitlin, Rutherford Dan: Satellite ruling polynomials, DGA representations, and the colored HOMFLY-PT polynomial. *Quantum Topol.* 11 (2020), 55–118. doi: 10.4171/QT/133

© 2020 EMS Publishing House. All rights reserved.

- A Dot.Lib é uma empresa brasileira dedicada à disseminação da informação científica através do fornecimento de acesso online a livros digitais, periódicos eletrônicos e bases de dados nas mais diversas áreas do conhecimento.
- Dotlib TV, um canal repleto de vídeos de conteúdos, tutorias e ferramentas que cobrem as mais diversas áreas de conhecimento. Acesse essas e outras informações, aqui, no nosso canal.



O QUE FALAM SOBRE NÓS:



[Site Institucional
www.dotlib.com.br](http://www.dotlib.com.br)

[Dot.Lib TV \(Canal Youtube\)
youtube.com/c/dotlibtv](https://youtube.com/c/dotlibtv)

