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Institut für Algebra und Geometrie

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1. LEITUNG

Prof. Dr. Thomas Kahle
Prof. Dr. Benjamin Nill (Institutsleiter)
Prof. Dr. Alexander Pott
Prof. Dr. Stefanie Rach
Prof. Dr. Petra Schwer

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Balletti, Gabriele; Borger, Christopher

Families of lattice polytopes of mixed degree one
Journal of combinatorial theory / A: JCTA - Amsterdam [u.a.]: Elsevier, Volume 173 (2020), article 105229;
[Imp.fact.: 0.958]

Borello, Martino; Cruz, Javier; Willems, Wolfgang

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[Imp.fact.: 0.77]

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Group codes over fields are asymptotically good
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Borger, Christopher; Nill, Benjamin

On defectivity of families of full-dimensional point configurations
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Bd. 7.2020, S. 43-51;

Cifuentes, Diego; Kahle, Thomas; Parrilo, Pablo

Sums of squares in Macaulay2
Journal of Software for Algebra and Geometry: Macaulay2: JSAG - [S.I.], Bd. 10.2020, S. 17-24;

Do, Trong Hoang; Kahle, Thomas

Hilbert-Poincaré series of parity binomial edge ideals and permanent ideals of complete graphs
Collectanea mathematica - Barcelona . - 2020, insges. 9 S.;
[Online first]
[Imp.fact.: 0.769]

Duarte, Eliana; Görgen, Christiane

Equations defining probability tree models
Journal of symbolic computation: an international journal - Amsterdam: Elsevier, Bd. 99.2020, S. 127-146;
[Imp.fact.: 0.876]

Graeber, Marius; Schwer, Petra

Shadows in coxeter groups

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Higashitani, Akihiro; Nill, Benjamin; Tsuchiya, Akiyoshi

Gorenstein polytopes with trinomial h -polynomials

Beiträge zur Algebra und Geometrie - Berlin: Springer . - 2020;
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Kahle, Thomas; Röttger, Frank; Schwabe, Rainer

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Mitteilungen der Deutschen Mathematiker-Vereinigung/ Deutsche Mathematiker-Vereinigung - Berlin: DMV,
Bd. 28.2020, 2, S. 71-76;

Karrer, Annette; Schwer, Petra; Struyve, Koen

The triangle groups $(2, 4, 5)$ and $(2, 5, 5)$ are not systolic

Graphs and combinatorics - Tokyo: Springer-Verl. Tokyo, Bd. 36.2020, 6, S. 1741-1782;
[Imp.fact.: 0.507]

Li, Shuxing; Meidl, Wilfried; Polujan, Alexandr; Pott, Alexander; Riera, Constanza; Stanica, Pantelimon

Vanishing flats - a combinatorial viewpoint on the planarity of functions and their application

IEEE transactions on information theory: a journal devoted to the theoretical and experimental aspects of
information transmission, processing, and utilization ; a publication of the IEEE Information Theory Society/
Institute of Electrical and Electronics Engineers - Piscataway, NJ: IEEE, Bd. 66.2020, 11, S. 7101-7112;
[Imp.fact.: 3.036]

Li, Shuxing; Pott, Alexander

A direct construction of primitive formally dual pairs having subsets with unequal sizes

Cryptography and communications: discrete structures, boolean functions and sequences - New York, NY:
Springer, Bd. 12.2020, S. 469-483;
[Imp.fact.: 1.291]

Li, Shuxing; Pott, Alexander

Intersection distribution, non-hitting index and Kakeya sets in affine planes

Finite fields and their applications - Orlando, Fla. [u.a.]: Elsevier, Volume 66(2020), article 101691;
[Imp.fact.: 1.478]

Liu, Y.; Willems, Wolfgang

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Journal of algebra - San Diego, Calif.: Elsevier, Bd. 558.2020, S. 595-610;
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Liu, Yanjun; Willems, Wolfgang; Xiong, Huan; Zhang, Jiping

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Nill, Benjamin

The mixed degree of families of lattice polytopes

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Polujan, Alexandr; Pott, Alexander

Cubic bent functions outside the completed Maiorana-McFarland class

Designs, codes and cryptography: an international journal - Dordrecht [u.a.]: Springer Science + Business Media
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Polujan, Alexandr; Pott, Alexander

On design-theoretic aspects of Boolean and vectorial bent function

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Rach, Stefanie; Ufer, Stefan

Which prior mathematical knowledge is necessary for study success in the university study entrance phase? - results on a new model of knowledge levels based on a reanalysis of data from existing studies

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Schwer, Petra

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Journal of combinatorial algebra: JCA - Zürich: European Mathematical Society Publishing House, Bd. 2.2018, 3, S. 215-230;

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Vectorial bent functions in odd characteristic and their components

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NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Rach, Stefanie; Ritter, Sebastian

Wer die Wahl hat ... Situationales Interesse durch Wahlaufgaben zu verschiedenen Kontexten steigern

Mathematik lehren: erfolgreich unterrichten: Konzepte und Materialien - Hannover: Friedrich Verlag GmbH . - 2020, 221, S. 26-29

BEGUTACHTETE BUCHBEITRäge

Kaspers, Christian; Pott, Alexander

On solving isomorphism problems about 2-designs using block intersection numbers

Finite Fields and their Applications: Proceedings of the 14th International Conference on Finite Fields and their Applications, Vancouver, June 3-7, 2019 - Berlin: De Gruyter, 2020; Davis, James A . - 2020, S. 51-70;

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DISSERTATIONEN

Ananiadi, Lamprini; Kahle, Thomas [AkademischeR BetreuerIn]

Symmetry in toric geometry

Magdeburg, 2020, 104 Seiten, Formeln;

[Literaturverzeichnis: Seite 99-104]

Borger, Christopher; Nill, Benjamin [AkademischeR BetreuerIn]

Mixed lattice polytope theory with a view towards sparse polynomial systems

Magdeburg, 2020, XV, 136 Seiten, Diagramme, 30 cm;

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Gerike, Daniel; Pott, Alexander [AkademischeR BetreuerIn]

Determining the cycle structure of permutation polynomials of shape $X^t + \gamma \text{Tr}(X^k)$

Magdeburg, 2020, V, 94 Seiten, Formeln, Tabellen, 30 cm;

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