Claudemir Fidelis Bezerra Júnior

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Citizenship: Brazil

Research interests

I have experience in Mathematics, with an emphasis on algebra on the following themes: central polynomials, polynomial identities, trace algebras and graded algebra.

Education

Universidade Estadual de Campinas　Campinas, SP
PhD in Mathematics　02/2014 – 07/2017
Mentors: Plamen Kochloukov, Diogo Diniz.

Universidade Federal de Campina Grande　Campina Grande, Paraíba
MA in Mathematics　03/2012 – 02/2014
Mentors: Diogo Diniz.

Universidade Federal da Paraíba　Rio Tinto, Paraíba
LIC in Mathematics　10/2006 – 12/2011
Mentors: Carlos Alberto

Honors and scholarships

CAPES TESE AWARD 2017 - EDITION 2018 (CAPES-Brazil)	2018
Honor to Merit (UFPB - Campus IV)	2016
Láurea Academic Highlight of Graduation, (UFPB)	2011

Publications

Identities for the special linear Lie algebra with the Pauli and Cartan gradings
Fidelis, C.; Diniz, D.; Sousa, F.
Israel Journal of Mathematics, 2021.

$\mathbb{Z}_q$-graded identities and central polynomials of the Grassmann algebra
Guimarães, A.; Fidelis, C.; Dias, L.
Linear Algebra and its applications, 2021.

Graded involutions on block-triangular matrix
Fidelis, C.; Gonçalves, D.; Diniz, D.; Yasumura, F.
Linear Algebra and its applications, 2020.

$\mathbb{Z}_2$ and $\mathbb{Z}$-graded central polynomials of the Grassmann algebra
Guimarães, A.; Fidelis, C.; Koshlukov, P.
International Journal of Algebra and Computation, 2020.

Graded isomorphisms on upper block triangular matrix algebras
Borges, A.; Fidelis, C.; Diniz, D.
Linear Algebra and its applications, 2018.

Embeddings for the Jordan algebra of a bilinear form
Fidelis, C.; Diniz, D.; Koshlukov, P.
Advances in Mathematics, 2018.

Primeness property for graded central polynomials of verbally prime algebras
Fidelis, C.; Diniz, D.
Journal of Pure and Applied Algebra, 2018.

Identities and central polynomials for real graded division algebras
Fidelis, C.; Diniz, D.; Alves, S.
International Journal of Algebra and Computation, 2017.

Research experience

Postdoctorate
Mentor: Ivan Chestakov (IME -USP)   2020 – Present
Postdoctoral project being carried out at USP. Summary of findings available here. Project is supported by FAPESP grant No. 2019/12498-0

Project trace and/or graded p.i.- algebras
Mentor: Project's coordenador   2019 – 2020
Universal project performed at UAMat-UFCG. The Project was supported by CNPq grant No. 421129/2018-2

Project Universal
Mentor: participating member   2017 – 2020
Universal project performed at UAMat-UFCG. The Project was supported by CNPq grant No. 406401/2016-0

Research titular, PPGMat (Universidade Federal de Campina Grande)
2020 -Present
Acting as a researcher and professor in the postgraduate program in Mathematics at this university.

Teaching experience

Teaching, Department of Mathematics (Universidade Federal de Campina Grande)
2015 - Present

Acting in graduate courses at the Exact Sciences Center (CCT) and the Humanities Center (CH) and PPGMAT.

Talks and tutorials	**Primeness property for graded central polynomials of verbally prime algebras**	02/2020

XII Summer Wokshop in Mathematics, UNB, Brasilia, Brazil

Embeddings in the Jordan algebra of a bilinear form 12/2018
XXV Brazilian Algebra Meeting (Conference), IMECC-UNICAMP, Campinas-SP, Brazil

Languages | Portuguese (fluent), English (elementary), Spanish (basic)

Service and outreach | **Bachelor's course** 01/2018 – 09/2019
Bachelor's course coordinator in mathematics.

Other interests | Watch movie and series; do hiking; ride a bike; play a videogame; study English, Spanish and Math; and play with my kids.