Curriculum Vitae

Nanjun Yang

Personal Information

Email：yangnanjun@bimsa.cn
Webpage：杨南君-北京雁栖湖应用数学研究院 (bimsa.cn)

Research Interests

Motivic cohomology, Chow Witt ring

Working Experiences

2019-2021: Yau Mathematical Sciences Center, Postdoc
2022-present: Beijing Institute of Mathematical Sciences and Applications, Assistant Professor

Education

PhD
Institut Fourier，Université Grenoble Alpes
2015-2019
Advisor: Jean Fasel   Major：Basic math

Master
Institut Fourier，Université Grenoble Alpes
2014-2015
Advisor: Jean Fasel   Major：Basic math

University of Chinese Academy of Sciences
2012-2014
Advisor: Baohua Fu   Major：Basic math

Bachelor
Beihang University
2008-2012
Major: Computer Science and Technology

Publications and Preprints

J. Fasel, N. Yang, On Tate Milnor-Witt motives, arXiv:2307.03424(2023)
N. Yang, Split Milnor-Witt motives and its applications in fiber bundles, Camb. J. Math, Vol 10, No. 4 (2022), pp. 935-1004
N. Yang, Projective Bundle Theorem in MW-Motivic Cohomology, Documenta Mathematica, 26 (2021) 1045-1083.

N. Yang, Quaternionic Projective Bundle Theorem and Gysin Triangle in MW-Motivic Cohomology, Manuscripta Mathematica, 164(1), 39-65 (2021).

Invited Talks

"$DM_{Nis}^{eff,-}(k,Z)$", K-Theory Summer School，University of Southern California，2015

'General Motivic Cohomology', Chinese Academy of Sciences，2018

'Generalized Motives and Symplectic Orientations', Institut Fourier，2019

'Projective Bundle Theorem in MW-Motives'，Tsinghua University，2020

'MW-Motive of Projective Spaces', National University of Defense Technology，2020

'Projective Bundle Theorem in MW-Motives', Peking University，2020

'Milnor-Witt Motive of Varieties', Central South University，2021

'Milnor-Witt Motive of Varieties', Seminars on knot theory and related topics，2021

'Milnor-Witt Motive of Varieties', Zhuhai Campus of Sun Yat-Sen University，2021

'Split Milnor-Witt Motives', Peking University，2021

'Split Milnor-Witt Motives', Morningside Center of Mathematics, Chinese Academy of Sciences，2021

'Split Milnor-Witt Motives', Tsinghua Algebraic Geometry Workshop，2021

'Split Milnor-Witt Motives', '2022 Tsinghua-BIMSA Mathematics Seminar' at TSIMF, 2022

'Milnor-Witt Motive, Bockstein Spectral Sequence and Applications', ICCM 2022

'Milnor-Witt Motives and Bockstein Spectral Sequence', Sun Yat-sen University, 2022

'Chow-Witt Groups and Milnor-Witt Motives', BIMSA Topology Seminar, 2022

'Milnor-Witt Bockstein spectral sequence of moduli of stable curves with marked points', Tsinghua University, 2022

'Milnor-Witt Motives and Bockstein Spectral Sequence', Tongji University, 2023

'On Tate Milnor-Witt Motives', Tsinghua University, 2023

'On Tate Milnor-Witt Motives', Chow-Witt Rings: Computations and Applications, 2023

'On Tate Milnor-Witt Motives', Huaqiao University, 2023

'On Tate Milnor-Witt Motives', ICCM 2023

'On Tate Milnor-Witt Motives', Workshop on Algebraic Geometry in Sanya, 2023

'From Quadratic Forms to Motivic Cohomologies', BIMSA Member Seminar, 2024

Conference Organizations

J. Wu, J. Li, N. Yang, BIMSA Topology Seminar, 2022.9-2023.6

M. Sheng, N. Yang, BIMSA-YMSC AG Seminar, 2023.9-2023.12

J. Fasel, N. Yang, Summer School: Chow-Witt Rings: Computations and Applications, 2023

Teaching Experiences

Teaching assistant, 'Foundation of Frontier Algebra', Prof. Peng Shan, 2020

Teaching assistant, 'Advanced Linear Algebra', Prof. Mingxian Zhu, 2021

'Motivic Cohomology', Spring 2022

'Steenrod Operations: From Classical to Motivic', Autumn 2022

'Motivic Cohomology', Spring 2023

'Steenrod Operations: From Classical to Motivic', Autumn 2023

Honors and Awards

Bachelor

2nd prize of the "Model New Students" for the 2007-2008 academic year

2nd prize scholarship of Academic Performance for the 2008-2009 academic year

3rd prize of the 20th "Feng Ru Cup" Student Academic Science and Technology Work Contest (Two prizes, one was the First Author)

2nd prize scholarship of the "Beihang's Friends-Zhonghang-Feiyuan"

3rd prize of the 1st National Olympiad in Mathematics for Undergraduates (for students not majored in mathematics), Beijing

2nd prize of the 2nd National Olympiad in Mathematics for Undergraduates (for students majored in mathematics), Beijing

"Merit Student" of School of Computer Science and Engineering, Beihang University in 2010

3rd prize scholarship of Discipline Competition for 2009-2010 academic year

High School

1st prize of the 13th National Olympiad in Informatics in Provinces (Advanced Level)

Junior School

1st prize of the National Olympiad in Mathematics for Junior School Students in 2004