



University of Pittsburgh

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Award Announcement for the Hales Distinguished Research Award: Dr. Dongyu Wu

October 19, 2022

Dear Dr. Dongyu Wu,

We are pleased to inform you that you have been selected as a winner of the “Thomas C. Hales Distinguished Research Award” in Mathematics. The prize is awarded annually for the best doctoral dissertation written by a graduate student in mathematics at the University of Pittsburgh.

Your prize is based on your 2021 thesis *The stable limit DAHA and the double Dyck path algebra*. In this research you established a precise connection between the double Dyck path algebra (DDPA) and a stable limit of a family of double affine Hecke algebras. Earlier researchers had speculated on how these structures might be related, but failed to prove the precise relation. The research of this thesis has ties to various topics such as affine Springer fibers, the rational Cherednik algebra, and the Shuffle Conjecture. Your thesis required important technical innovations. Your research represents a major accomplishment.

Along with the prize winners before you, you have set a standard of excellence for future graduate students at Pitt to follow. As part of this prize, you will be presented with a \$1,000 check. Your name will be placed on the trophy plaque that is on display in the Pitt Math Department. Two awards have been announced for 2021. The other prize winner is Dr. Tongtong Li.

The prize has been made possible by a generous gift to the University of Pittsburgh from the Beckham Foundation.

Congratulations for this achievement.

Thomas Hales
Dehua Wang
Math Department