A branch statistic for trees

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A hyperplane arrangement is a finite collection of affine hyperplanes in Euclidean space. Our goal is to give combinatorial meaning to the coefficients of a certain polynomial associated to an arrangement called its characteristic polynomial. This is done by defining an appropriate statistic on the regions into which the arrangement breaks the space. We will be focusing on a popular class of arrangements called 'deformations of reflection arrangements' where the regions correspond to certain trees. This is based on joint work with Priyavrat Deshpande.

References

1. P. Deshpande and K. Menon, *A branch statistic for trees*, Enumer. Comb. Appl. **3** (2023). DOI.

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