

An expansion property of Boolean multilinear map

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This is joint work with Zongchen Chen

Wu, Xu and Zhu [1] recently introduced the concept of multivariate digraphs. In this talk, we consider an expansion property of Boolean multivariate digraphs. Returning to the usual digraph case, this is to study this problem: If we multiply a Boolean vector by a Boolean matrix repeatedly, how to estimate from below the sizes of the support of the resulting vectors?

References

- [1] Y. Wu, Z. Xu, Y. Zhu, Strongly connected multivariate digraphs. *The Electronic Journal of Combinatorics* **24**(1) (2017) #P1.47, 44.