

Thursday, September 26th, 12:00-13:00

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RECENT PROGRESS IN SPHERE PACKING AND RELATED PROBLEMS

We give an informal survey of the series of papers by Viazovska, Cohn, Kumar, Miller and Radchenko on the problem of sphere packing, and more generally on optimal configurations of points in Euclidean space. We focus especially on the most recent paper, arXiv:1902.05438, concerning the universal optimality of some highly symmetrical lattice configurations in dimension 8 and 24.