

COLLOQUIUM

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Structure of Codes for the Sum-Rank Metric Friday October 15th at 3pm on Zoom

https://csuohio.zoom.us/j/91945126460

Bio: Alberto Ravagnani received the Ph.D. in mathematics from the University of Neuchâtel, Switzerland, in 2016. He was a Postdoctoral Fellow at University of Toronto, Canada, and a Marie Curie Research Fellow at University College Dublin, Ireland. Since 2020, he has been a Faculty Member at Eindhoven University of Technology, where he is currently Assistant Professor of coding theory. His research interests include coding theory, network information theory, and combinatorics. He is a member of the Society for Industrial and Applied Mathematics and a life member of the Marie Curie Alumni Association.

Abstract: I will discuss the fundamental properties of error-correcting codes in the sum-rank-metric space. These are linear spaces of matrix tuples (of mixed size) endowed with the sum-rank distance. The new results I will present include upper bounds for the size of sum-rank-metric codes, existence results, and duality properties.