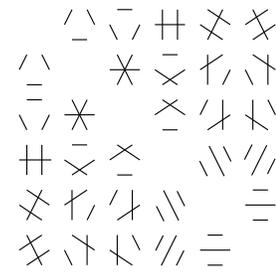


# Mathematics Seminar



## Rocky Mountain Algebraic Combinatorics Seminar

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### New proof of an old result (joint with Sungwoo Jeong)

Martin Kassabov  
Cornell University

I will describe a new proof of the almost 150 year old result of a Frobenius that the only normed associative division algebras with involution over the real numbers are  $\mathbb{R}$ ,  $\mathbb{C}$  and  $\mathbb{H}$ . The proof is motivated by random matrix theory, but only uses elementary probability and relatively simple computations.

Weber 223

4–6 pm, Monday !!, October 13, 2025

(Refreshments 3:30–4 pm)

Colorado State University

4 pm, Monday !!, October 13, 2025

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This is a joint Denver U / CU Boulder / U of Wyoming / CSU seminar that meets biweekly.

Anyone interested is welcome to join us at a local restaurant for dinner after the talks.



Department of Mathematics  
Fort Collins, Colorado 80523