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*Open problems related to Erdős-Ko-Rado type results*

I have been working on Erdős-Ko-Rado type results using methods from Algebraic Graph Theory for many years. In this talk I will describe several problems and conjectures related to this work where my standard methods fail and I need new tools! These are all problems I am hoping to make progress on with the collaborative research group Movement and Symmetry in Graphs.