MARK SAALTINK, unaffiliated
An extremal problem in vector spaces over finite fields.
What is the largest number of bases contained in $n$ points in the $r$-dimensional vector space over $\mathbb{F}_{q}$ ?
In this talk I provide asymptotic results, exact results for some values of $n$, and upper and lower bounds. Along the way I will introduce an interesting question on uniform hypergraphs, with connections to a theorem of Turán.
This is joint work with Brett Stevens.

