



SCMS Colloquium

POLYNOMIALS OF BOUNDED DEGREE

Speaker: Steven Sam

University of California at San Diego

Time : Thu, Oct. 13th, 10:30-11:30

Venue: Zoom Meeting: 869 1260 8777 password: SCMS



Abstract: Ananyan and Hochster proved the existence of "small subalgebras" for collections of polynomials with a priori bounded degrees. Roughly speaking, this means that arbitrary polynomials can be written as polynomial expressions of a fixed number of more basic polynomials with good properties. I'll discuss some motivations for this coming from finding uniform bounds for numerical invariants of ideals and discuss ideas (ultraproducts, GL-noetherianity) related to new proofs of their result.

