1165-14-164 **Paolo Aluffi** and **Leonardo C Mihalcea*** (`lmihalce@math.vt.edu`), Blacksburg, VA 24060, and **Jorg Schurmann** and **Changjian Su**. *Positivity of Segre-MacPherson classes.*

The Segre-MacPherson (SM) class of a variety U in a manifold M is a class in the homology group of M. In special cases, these classes are equivalent to the stable envelopes of Maulik and Okounkov. I will prove a positivity property of the SM class of U in the case when U is affine. If M is a flag manifold and U a Schubert cell, this amounts to the fact that the expansion of the SM class into ordinary Schubert classes is alternating, thus proving a conjecture by Feher and Rimanyi. Via Poincare duality and a relation to Hecke algebras, this leads to a proof of Schubert positivity of the Chern-Schwartz-MacPherson classes of Schubert cells. Joint work with P. Aluffi, J. Schurmann, and C. Su. (Received January 17, 2021)