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Irina Iliaea* (iiliaea1@gsu.edu), 3200 Lenox Rd Ne, Apt F414, Atlanta, GA 30324. *On the Frobenius Complexity Sequence of Stanley-Reisner Rings*. Preliminary report.

The Frobenius complexity of a local ring R measures asymptotically the abundance of Frobenius actions of order e on the injective hull of the residue field of R . It is known that, for Stanley-Reisner rings, the Frobenius complexity is either $-\infty$ or 0. We will give a complete description of the Frobenius complexity sequence $c_e(R)$ for all values of e , when R is Stanley-Reisner, generalizing work of Álvarez Montaner, Boix and Zarzuela. Our result settles an open question mentioned by Álvarez Montaner in one of his papers. (Received August 31, 2019)