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Mihai Fulger, Alexandra Seceleanu* (aseceleanu@unl.edu), **Tomasz Szemberg** and **Justyna Szpond**. *Growth of the symbolic defect*. Preliminary report.

The symbolic defect of an ideal, introduced by Galetto-Geramita-Shin-Van Tuyl, is a measure of the discrepancy between its ordinary and symbolic powers.

This talk focuses on the case of ideals with Noetherian symbolic Rees algebra, where the symbolic defect grows quasi-polynomially. We explore the connections between the polynomial order of growth of the symbolic defect function and the notion of symbolic analytic spread recently introduced by Dao-Montano. We also consider the leading coefficient of the symbolic defect quasi-polynomial, determining it for ideals defining certain sets of general points in the plane. (Received August 02, 2020)