

The powers of a symmetric strongly shifted ideal

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Symmetric strongly shifted ideals are a special class of monomial ideals, which are invariant under the action of the symmetric group by permutation of the variables. In this talk, I will describe how the combinatorial structure of an ideal of this kind dictates the algebraic properties of its powers and of its Rees algebra. The content of this talk is part of joint work with Alexandra Seceleanu, sponsored by the 2021 NSF-AWM Mentoring Travel Grant.