# Stabilization in Sequences of Symmetric Ideals

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Algebraic-statistical models often have a rich algebraic structure, reflected, for example, in a large symmetry group. It is natural to expect that the properties of the model remain somewhat invariant when one only changes its parameters. We discuss an algebraic framework in order to capture such phenomena. Related questions arise in representation theory and topology. A starting point are ascending chains of symmetric ideals in more and more variables. Finiteness results in a suitable category lead to a uniform description of properties of all but finitely many ideals in such a chain.

This is based on joint work with Tim Römer.