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**Uwe Nagel\***, Dep. of Mathematics, University of Kentucky, 715 Patterson Office Tower,  
Lexington, KY 40506. *Chains of Symmetric Ideals.*

Ideals in polynomial rings in countably many variables that are invariant under a suitable action of a symmetric group arise in various contexts, including algebraic statistics and representation theory. Any such ideal can be described by an ascending chain of symmetric ideals in an increasing number of finitely many variables. We discuss recent results describing properties of ideals in such chains.

The talk is based on joint work with Tim Römer. (Received January 19, 2018)