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Roland Speicher* (speicher@mast.queensu.ca), Department of Mathematics and Statistics,
Queen's University, Jeffery Hall, Kingston, Ontario K7L 3N6, Canada. *Higher order freeness.*

Higher order freeness extends the relation between random matrices and free probability theory from the level of expectations to the level of all correlation functions.

I will give a motivation of the notion of higher order freeness and survey some of the main results on that concept. (Received January 22, 2007)