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Georgia Benkart* (benkart@math.wisc.edu), Department of Mathematics, University of Wisconsin-Madison, Madison, WI 53706. *Tensor Invariants, Dimensions, and Multiplicities - A Walking Tour.*

In 1897, Molien gave a formula for the Poincaré series for the invariants of a finite group G acting on symmetric powers of a G -module (the polynomial invariants). This talk will focus on analogues of Molien's formula for tensor invariants and will discuss connections with dimensions of centralizer algebras and their irreducible modules. The approach is via walking on certain related graphs. (Received August 28, 2016)