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Claudiu Raicu* (craicu@nd.edu). *Characters of equivariant D -modules on Veronese cones*. Preliminary report.

Equivariant local systems on orbits of a group action give rise via the Riemann–Hilbert correspondence to equivariant D -modules, which are typically hard to describe. I will explain how to compute explicitly the characters of the GL -equivariant D -modules supported on the Veronese cones. In particular, I will appeal to recent results of de Cataldo, Migliorini and Mustață on the Decomposition Theorem for toric maps, and show how representation theoretic stabilization results are used in a crucial way in the calculation. (Received July 29, 2014)