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**Benjamin Jurke\*** ([bjurke@gmx.de](mailto:bjurke@gmx.de)). *Line bundle valued sheaf cohomology on toric varieties.*

Non-standard techniques for the computation of line bundle valued sheaf cohomology group dimensions on toric varieties are presented. Those methods can also be extended to compute the cohomology group dimensions on quotient spaces of finite group action. Some applications are discussed. (Received June 28, 2011)