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"An affine Gindikin-Karpelevich formula" 1. Introduction; 2. Affine Kac-Moody groups; 3. Finiteness of the Gindikin-Karpelevich Sum, Part I; 4. Completion of  $\mathfrak{a}$ ; 5. Finiteness of the Gindikin-Karpelevich Sum, Part 2; 6. Proof of Theorem 1.9 and Theorem 1.13; 7. Appendix: Proof of 5.9; Acknowledgements; References; On the discrete groups of Mathieu Moonshine; 1. Introduction; 2. Preliminaries; 3. Cusp forms; 4. Perspectives; Appendix A. Special functions; References; References; The classical master equation; 1. Introduction; 2. Graded varieties; 3. Solutions of the classical master equation; 4. Existence and uniqueness for affine varieties; 5. Computing the BRST cohomology; 6. Examples; 7. BRST cohomology in degree 0 and 1 and Lie  $\mathfrak{e}_6$ -Rinehart cohomology; 8. The case of quasi-projective varieties; Appendix A. Stable isomorphism of Tate resolutions; Appendix B. Gluing sheaves of differential graded algebra; Acknowledgements; References; DG indschemes; Introduction; Acknowledgments; 1. DG indschemes; 2. Sheaves on DG indschemes; 4. Fourth order differential equations

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