
Contents

Preface	ix
Publications of Anthony Joseph	xiii
Students of Anthony Joseph	xxi
From Denise Joseph	xxiii
From Jacques Dixmier: A Recollection of Tony Joseph	xxv
Part I: Survey and Review	1
The work of Anthony Joseph in classical representation theory <i>W. McGovern</i>	3
Quantized representation theory following Joseph <i>Daniel R. Farkas and Gail Letzter</i>	9
Part II: Research Articles	
Opérateurs différentiels invariants et problème de Noether <i>Jacques Alev and François Dumas</i>	21
Langlands parameters for Heisenberg modules <i>A. Beilinson</i>	51

Instanton counting via affine Lie algebras II: From Whittaker vectors to the Seiberg–Witten prepotential <i>A. Braverman and P. Etingof</i>	61
Irreducibility of perfect representations of double affine Hecke algebras <i>Ivan Cherednik</i>	79
Algebraic groups over a 2-dimensional local field: Some further constructions <i>Dennis Gaitsgory and David Kazhdan</i>	97
Modules with a Demazure flag <i>Anthony Joseph</i>	131
Microlocalization of ind-sheaves <i>M. Kashiwara, P. Schapira, F. Ivorra and I. Waschkies</i>	171
Endoscopic decomposition of certain depth zero representations <i>David Kazhdan and Yakov Varshavsky</i>	223
Odd family algebras <i>A. A. Kirillov and L. G. Rybnikov</i>	303
Gelfand–Zeitlin theory from the perspective of classical mechanics. I <i>Bertram Kostant and Nolan Wallach</i>	319
Extensions of algebraic groups <i>Shrawan Kumar and Karl-Hermann Neeb</i>	365
Differential operators and cohomology groups on the basic affine space <i>Thierry Levasseur and J. T. Stafford</i>	377
A q -analogue of an identity of N. Wallach <i>G. Lusztig</i>	405
Centralizers in the quantum plane algebra <i>L. Makar-Limanov</i>	411
Centralizer construction of the Yangian of the queer Lie superalgebra <i>Maxim Nazarov and Alexander Sergeev</i>	417
Definitio nova algebroidis verticiani <i>Vadim Schechtman</i>	443