

1. Record Nr.	UNINA9910817123303321
Autore	Irving Ronald S. <1952->
Titolo	A filtered category OS and applications // Ronald S. Irving
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 1990 ©1990
ISBN	1-4704-0842-2
Descrizione fisica	1 online resource (131 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Volume 83, Number 419
Disciplina	512/.2
Soggetti	Verma modules Semisimple Lie groups Filtered modules
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"January 1990, volume 83, number 419 (first of 6 numbers)."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	""CONTENTS""; ""I. INTRODUCTION""; ""1. INTRODUCTION""; ""1.1. Summary""; ""1.2. Filtered modules and filtered characters""; ""1.3. Projective and self-dual modules""; ""1.4. Overview of paper""; ""1.5. Acknowledgements""; ""II. THE HECKE MODULE""; ""2. THE SIMPLE AND VERMA BASES""; ""2.1. Kazhdan-Lusztig polynomials""; ""2.2. The Hecke module: four equivalent definitions""; ""2.3. The Hecke module: proof of equivalences""; ""2.4. Duality and the simple basis""; ""2.5. The Hecke algebra action""; ""3. THE PROJECTIVE AND SELF-DUAL BASES""; ""3.1. The projective basis"" ""3.2. Some elements of the Hecke algebra""""3.3. An involution of M [sup(*)]sub(s)"""; ""3.4. A new self-dual basis""; ""4. THE SPECIALIZED HECKE MODULE""; ""4.1. Definitions""; ""4.2. Duality polynomials""; ""4.3. A Jantzen sum formula""; ""III. THE FILTERED CATEGORY O[sub (s)]""; ""5. THE CATEGORY O AND TRANSLATION FUNCTORS""; ""5.1. The category and its Grothendieck group""; ""5.2. Translation functors""; ""6. THE FILTERED CATEGORY O[sub(s)] AND TRANSLATION FUNCTORS""; ""6.1. Definition and basic properties of the filtered category""; ""6.2. Some important filtrations"" ""6.3. Translation functors on the filtered category""IV. APPLICATIONS""; ""7. RADICAL FILTRATIONS OF GENERALIZED VERMA MODULES AND PROJECTIVE MODULES""; ""7.1. Radical filtrations of

generalized Verma modules"; "7.2. Radical filtrations of projective indecomposable modules"; "7.3. More on radical filtrations"; "7.4. Rigidity of generalized Verma modules and projective modules"; "8. SELF-DUAL PROJECTIVE MODULES AND THEIR FILTERED CHARACTERS"; "8.1. Self-dual projective modules: review"; "8.2. Filtered self-duality of certain projective modules"; "8.3. Applications"  
"9. SELF-DUAL MODULES WITH A VERMA FLAG AND THEIR FILTERED CHARACTERS" "9.1. A class of self-dual modules with a Verma flag";  
"9.2. A category of self-dual modules"; "REFERENCES"

---