

1. Record Nr.	UNINA9910827648203321
Autore	Greenberg Ralph <1944->
Titolo	Iwasawa Theory, Projective Modules, and Modular Representations // Ralph Greenberg
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , 2010 ©2010
ISBN	1-4704-0609-8
Descrizione fisica	1 online resource (185 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; Number 922
Disciplina	512.7/4
Soggetti	Iwasawa theory Curves, Elliptic
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"May 2011, volume 211, number 992 (second of 5 numbers )." -- T.p.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	<p>""Contents""; ""Abstract""; ""Chapter 1. Introduction.""; ""1.1. Congruence relations.""; ""1.2. Selmer groups for elliptic curves.""; ""1.3. Behavior of Iwasawa invariants.""; ""1.4. Selmer atoms.""; ""1.5. Parity questions.""; ""1.6. Other situations.""; ""1.7. Organization and acknowledgements.""; ""Chapter 2. Projective and quasi-projective modules.""; ""2.1. Criteria for projectivity and quasi-projectivity.""; ""2.2. Nonzero -invariant.""; ""2.3. The structure of <math>G/\text{to.G}</math> .""; ""2.4. Projective dimension.""; ""Chapter 3. Projectivity or quasi-projectivity of <math>X_E(K)</math>.""</p> <p>""3.1. The proof of Theorem 1.""""3.2. Quasi-projectivity.""; ""3.3. Partial converses.""; ""3.4. More general situations.""; ""3.5. - extensions.""; ""Chapter 4. Selmer atoms.""; ""4.1. Various cohomology groups. Coranks. Criteria for vanishing.""; ""4.2. Selmer groups for <math>E[p]</math>.""; ""4.3. Justification of (1.4.b) and (1.4.c).""; ""4.4. Justification of (1.4.d) and the proof of Theorem 2.""; ""4.5. Finiteness of Selmer atoms.""; ""Chapter 5. The structure of <math>H_v(K, E)</math>.""; ""5.1. Determination of <math>E,v()</math>.""; ""5.2. Determination of ""426830A <math>E,v</math>, ""526930B .""</p> <p>""5.3. Projectivity and Herbrand quotients.""""Chapter 6. The case where is a p-group.""; ""Chapter 7. Other specific groups.""; ""7.1. The groups <math>A_4, S_4</math>, and <math>S_5</math>.""; ""7.2. The group <math>\text{PGL}_2(\mathbb{F}_p)</math>.""; ""7.3. The groups <math>\text{PGL}_2(\mathbb{Z}/p^r\mathbb{Z})</math> for <math>r \geq 1</math>.""; ""7.4. Extensions of <math>(\mathbb{Z}/p\mathbb{Z})</math> by a p-group."";</p>

""Chapter 8. Some arithmetic illustrations.""; ""8.1. An illustration where  $0$  is empty.""; ""8.2. An illustration where  $0$  is non-empty.""; ""8.3. An illustration where the  $0365$ 's have abelian image.""; ""8.4. False Tate extensions of  $Q$ .""; ""Chapter 9. Self-dual representations.""  
""9.1. Various classes of groups."" ""9.2. groups.""; ""9.3. Some parity results concerning multiplicities.""; ""9.4. Self-dual representations and the decomposition map.""; ""Chapter 10. A duality theorem.""; ""10.1. The main result.""; ""10.2. Consequences concerning the parity of  $sE()$ .""; ""Chapter 11.  $p$ -modular functions.""; ""11.1. Basic examples of  $p$ -modular functions.""; ""11.2. Some  $p$ -modular functions involving multiplicities.""; ""Chapter 12. Parity.""; ""12.1. The proof of Theorem 3.""; ""12.2. Consequences concerning  $WDel(E,)$  and  $WSel_p(E,)$ .""  
""Chapter 13. More arithmetic illustrations."" ""13.1. An illustration where  $E/K/F$  is empty.""; ""13.2. An illustration where  $K=Q(E[p])$ .""; ""13.3. An illustration where  $Gal(K/Q)$  is isomorphic to  $B_n$  or  $H_n$ .""  
""Bibliography""

---