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Jeffrey Hatley* (hatleyj@union.edu) and **Antonio Lei**. *Arithmetic properties of signed Selmer groups at non-ordinary primes.*

We extend many results (due to Greenberg-Vatsal, Emerton-Pollack-Weston, and Pollack-Weston) on Selmer groups for p -ordinary elliptic curves and modular forms to the non-ordinary setting. More precisely, we study the signed Selmer groups defined using the machinery of Wach modules over \mathbf{Z}_p -cyclotomic extensions. The main ingredient is the definition of residual and non-primitive Selmer groups at non-ordinary primes, which allow us to show that if two non-ordinary modular forms of even weight $k \geq 2$ are congruent mod p , then their Selmer groups also enjoy a congruence property mod p . (Received September 12, 2016)