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Silas Johnson* (sjohnson@math.wisc.edu). *Weighted Discriminants and Mass Formulas for Number Fields*. Preliminary report.

Kedlaya and Wood have explored alternate invariants for number fields, with the idea of replacing the discriminant in standard field-counting questions with one of these alternate invariants. We further explore the space of “reasonable” invariants, expanding on Kedlaya and Wood’s definition. We also discuss a theorem on mass formulas for these invariants. (Received September 14, 2014)