

1155-55-516

Candace Bethea, Niny Arcila Maya, Morgan Opie* (opie.morgan@gmail.com), **Kirsten Wickelgren** and **Inna Zakharevich**. *A compactly supported motivic Euler characteristic via the Hochschild complex*. Preliminary report.

We give a compactly supported motivic Euler characteristic for smooth schemes over a ground field k . Our invariant, which is defined using the Hochschild complex, maps out of $K_0(\mathrm{Var}_k)$ and takes values in the Grothendieck–Witt group of k . As time allows, we will outline work in progress to obtain a spectrum-level version of this construction. (Received January 20, 2020)