

1041-55-162

**Justin Noel\*** ([justin@uchicago.edu](mailto:justin@uchicago.edu)), Mathematics Department, 5734 S University Ave,  
Chicago, IL 60637. *Generalized cohomology and generalized Witt schemes*. Preliminary report.

The direct sum and tensor product operations on complex vector bundles make  $H^*(BU)$  into a “co-Hopf ring.” We study this structure through its associated scheme  $Spf(H^*(BU))$ . This scheme is closely related to the scheme of Witt vectors. Replacing ordinary cohomology with an even-periodic cohomology theory  $E$ , we obtain an analogous relationship with a scheme of Witt vectors twisted by the formal group associated to  $E$ . (Received August 10, 2008)