

1011-19-181

Seva Joukhovitski* (seva@member.ams.org). *Triangular Witt groups of punctured vector bundles.*

Abstract: The theory of triangular Witt groups (TWG) was developed by P. Balmer as a generalization of the classical Witt theory of M. Knebusch. It is a very good generalization since the classical Witt groups may be always viewed as unshifted triangular Witt groups. At the same time TWG form a cohomology theory, while the classical Witt groups do not.

In the recent paper ‘Koszul complexes and symmetric forms over the punctured affine space,’ P. Balmer and S. Gille have computed triangular Witt groups of punctured affine spaces. In this report we explain how their result generalizes to the case of an arbitrary punctured vector bundle. We further discuss how this technique provides another way to tackle triangular Witt groups of arbitrary projective bundles. (Received August 29, 2005)