

1084-14-293

Jose Luis Gonzalez*, jgonza@math.ubc.ca, and **Kalle Karu**, karu@math.ubc.ca. *Bivariant Equivariant Cobordism.*

We define operational versions of algebraic cobordism and equivariant algebraic cobordism. More generally, we associate a bivariant theory to any oriented Borel-Moore homology theory with exterior and intersection products. Our bivariant groups satisfy the expected properties from the classical intersection theory case, e.g., one recovers the original theory in the expected cases and there is a version of Poincaré duality. We also present some Kimura-type exact sequences for algebraic cobordism and for bivariant (equivariant) cobordism. We prove that in general, for theories satisfying the exactness of these sequences, operational equivariant cobordism can be computed as the inverse limit of the operational cobordisms of partial Borel-type constructions associated to the variety. We illustrate our results by computing the operational equivariant cobordism ring of arbitrary toric varieties. The results in this talk are from joint work with Kalle Karu. (Received September 04, 2012)