

Bordism of commuting involutions

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The bordism ring of manifolds equipped with an involution was computed additively by Conner-Floyd (1965) and multiplicatively by Alexander (1972). Alexander's description is explicit but complicated and doesn't seem to enjoy a simple algebraic interpretation.

In this talk I will discuss that if one extends the problem and

- 1) considers the collection of bordism rings of manifolds with n commuting involutions for all n , and
- 2) takes into account the representation sphere-grading,

then there is a simple algebraic universal property. This is joint work with Stefan Schwede.