CELLULAR MOTIVIC INVARIANTS OF $\mathbb{Z}[1/2]$

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A cellular motivic invariant is a special type of functor from the category of commutative rings (or the opposite of schemes, say) to spectra. Examples include algebraic K-theory, motivic cohomology, etale cohomology and algebraic cobordism. Dwyer-Friedlander observed that for 2-adic etale K-theory and certain related invariants, the value on $\mathbb{Z}[1/2]$ can be described in terms of a fiber square involving the values on the real numbers, the complex numbers, and the field with three elements. I will explain a generalization of this result to arbitrary 2-adic cellular motivic invariants.

This is joint work with Paul Arne Østvær.