

# Universal coefficient sequences in chromatic homotopy theory

Lennart Meier

Abstract: K-theory with Reality was introduced by Atiyah as a combination of real and complex K-theory. In joint work with John Greenlees, we give a universal coefficient sequence for connective Real K-theory, using Anderson duality.

Connective Real K-theory can be generalized to  $C_2$ -equivariant spectra  $BPR\langle n \rangle$ . Despite their complexity, these are still computationally accessible. We also compute the Anderson dual of  $BPR\langle n \rangle$  and the associated universal coefficient theorem and relate it to local cohomology.