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Bott periodicity for discrete orthogonal groups

Bott periodicity is one of the fundamental theorems in K-theory. We revisit the subject, after the fundamental work of Suslin, Voevodsky and Rost. We prove that the homotopy groups with finite coefficients of the "discrete" infinite orthogonal group are also periodic, after a certain range depending on the étale codimension of the ring involved.

This is a joint work with Jon Berrick and Paul Ostvaer.