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$\mathbb{Z}^d$-odometers and Cohomology

$\mathbb{Z}$-odometers are well-known examples of Cantor minimal systems. In particular, any two orbit equivalent $\mathbb{Z}$-odometers are conjugate. In this talk, we will use two equivalent formulations of $\mathbb{Z}^d$-odometers to show that there exist orbit equivalent $\mathbb{Z}^2$-odometers which are not conjugate. It is a joint work with I. Putnam and C.F. Skau.