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Borel complexity of Archimedean orders on finitely generated group

We present results on the Borel complexity of the action of $GL_2(\mathbb{Z})$ on the Archimedean orders of \mathbb{Z}^2 . This mimics a result of F. Calderoni, A. Shani, D. Marker and L. Motto Ros for \mathbb{Q}^2 . We discuss possible generalizations to different groups, including for intermediate rings $\mathbb{Z} \subset R \subset \mathbb{Q}$ and \mathbb{Z}^n .