

Quiz 2

February 22, 2021

1. If A is the annulus of dimension 2 (i.e. $A := \{(x, y) \in \mathbb{R}^2 \mid 1 \leq x^2 + y^2 \leq 2\}$), upto group isomorphism, what are the different possibilities of $H_2(A, A \setminus x)$ for all $x \in A$? (5 points)