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**Jason Polak\*** (jpolak@jpolak.org) and **Jayce Getz**. *An Example of Relative Endoscopy*.

For a reductive algebraic group  $G$  with Lie algebra  $\mathfrak{g}$  and involution  $\theta : G \rightarrow G$ , we define relative orbital integrals with respect to  $G^\theta$  acting on  $\mathfrak{g}_1 = \{x \in \mathfrak{g} : \theta(x) = -x\}$ . We demonstrate an explicit calculation with the example of  $U_2 \times U_2 \hookrightarrow U_4$  that suggests a hidden law of endoscopy lurking in this situation. Along the way, we will glimpse some of the difficulties in formulating a relative fundamental lemma. (Received September 19, 2014)