

# The indices of a fixed point under iteration of an orientation-reversing $\mathbb{R}^3$ homeomorphism

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The sequence of fixed point indices under iteration of the map  $f$  is known to carry important information about the dynamical behaviour of  $f$  in the neighborhood of an isolated fixed point. In this talk, we discuss the possible forms of the sequences  $(\text{ind}(f^n, 0))_{n=1}^{\infty}$ , where  $f$  is an orientation-reversing homeomorphism of  $\mathbb{R}^3$ .