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Understanding current drive and penetration with rotating fields: single-particle electron orbits PETER JANDOVITZ, S. A. COHEN, Princeton Plasma Physics Laboratory — In an effort to understand current drive and penetration with rotating magnetic fields, we examined single-particle electron orbits under different conditions. It was found to be difficult to reconcile the single-particle picture with fluid theory and experimental results, and the penetration and current drive mechanisms associated with odd-parity RMF are still unclear. Future PIC simulations and experiments will hopefully shed light on these questions.

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