Runaway electron mitigation is an urgent Issue for ITER. This contribution addresses re-distribution of runaway electrons by low-order resonant modes.

✓ **METHOD:** simulation code
- Relativistic guiding-center code (ETC-Rel)
- Nonlinear reduced MHD modeling

✓ We have shown that for highly-relativistic REs, drift resonance occurs due to poloidal asymmetry inherent to toroidicity and affects the onset of stochastic orbits.

✓ Resultant secondary islands interfere with MHD modes, affecting stochastic criterion (even depending on the island phase).

✓ RE re-distribution is dominated by drift resonance as well as by nonlinear and toroidal coupling between the MHD modes.