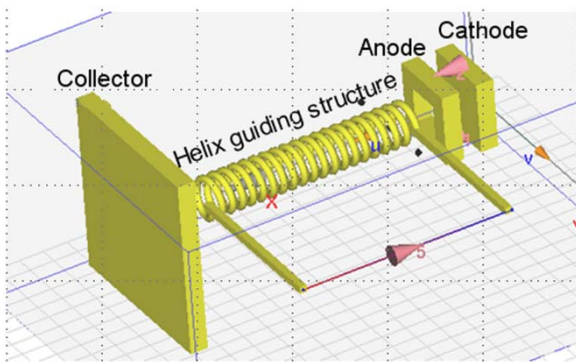
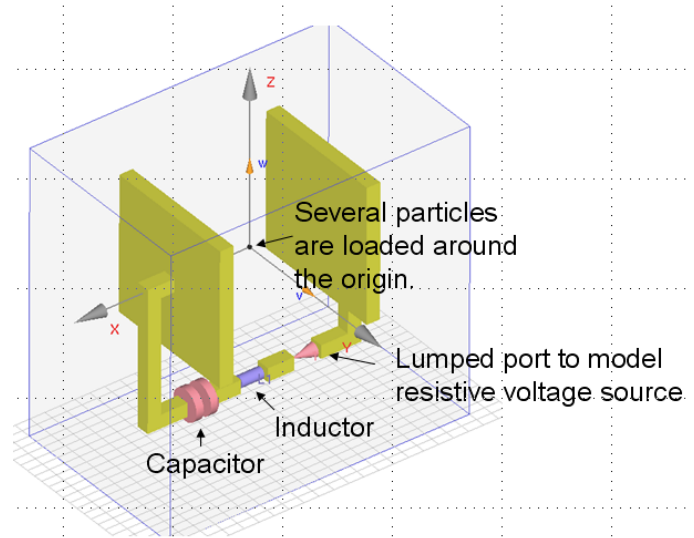


Wavenology PIC

Electromagnetic particle-in-cell (PIC) simulation is an important design prototyping step in research and development of high power microwave sources and other high power microwave applications. Wavenology PIC software tool are developed with a graphic user interface for the PIC simulation. With Wavenology PIC, the user can design a complex geometry for a PIC problem. In addition to hybrid EM-PIC solvers, the EM solver itself contains hybridized solvers as well. To take advantages of each method



in their preferred application domains, ECT is applied to regions with electrically fine structures, while the SETD method is applied to regions with electrically coarse structures. Applications such as: particles between two plates powered by a circuit; Cathode ray tube (CRT) mode; Velocity modulation of traveling wave tube

(TWT); and particles in a tube excited by a wave mode can all be efficiently and accurately simulated by Wavenology PIC.

