

Plasma Acceleration and Heating Using Hybrid Magnetic Fields

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The repulsive force between two wires with large currents flowing in opposite directions through the wires can be used to propel a light circular conductor located above a massive ring. Then the axial velocity can reach 500 km/s and an auxiliary constant magnetic field controls the radial velocity. This allows to get a high concentration of energy at any distance from the laboratory equipment. A further application could be the investigation of the equation of state of matter at high densities and the triggering of fusion reactions.

Key words: Plasma Acceleration; Plasma Reheat; Focusing.