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The Shock Wave Acceleration

Yoshiro MIIDA*

The author designed and performed the experiments on the shock wave accelerator.

This accelerator is the magnetic piston which travels along the electric delay line, and acts the plasma after a shock wave as the driving force.

The shock wave is made by a low inductance linear discharge tube with a follow electrode.

In this experiment the author measured the velocity of the shock wave by a streak camera.

In consequence, the acceleration of the shock wave was attended with a good result, and the maximum velocity became 100 Mach No. from initial velocity 30 Mach No. in this accelerator.

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