

## Abstract

CR-39 SSNTDs were employed to investigate Hydrogen ions lateral spread and their energy vis-à-vis filling pressure in a low energy (2.3 kJ) plasma focus. The low energy plasma focus was energized by a 32  $\mu\text{F}$ , 12 kV Maxwell capacitor. The detectors were exposed at two different orientations namely normal and at  $45^\circ$  to the axis of anode at five filling pressures of the working gas namely 0.5, 0.75, 1.0, 1.25, 1.5 mbar. The exposed detectors were etched in 6N NaOH solution for 4 hrs at  $70^\circ\text{C}$ . The etched detectors were scanned using an optical microscope. The ions flux was determined by counting tracks. The ions flux was found to show a regular variation along a line. The energy of ions was estimated to be 80 keV.