

ISOTOPE SEPARATION IN A SYSTEM  
WITH CUSP-GEOMETRY MAGNETIC FIELD

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S u m m a r y

Motion of particles in a system with cusp-geometry magnetic field is studied. It is shown that, with a sufficiently high radial velocity component of a particle, the latter can be reflected, after passing the zero-magnetic-field plane, by the growing barrier field even if the conditions are met for passing particles with  $\dot{r}_0 = 0$  through the barrier. In the central part of the system, the radial size of the particles' flux gets increased if their radial velocities differ from zero. An example of separation of the carbon isotopes  $^{12}\text{C}$  and  $^{13}\text{C}$  is adduced. Possibilities for isotopes' taking out are discussed.