

**ion cyclotron resonance (ICR) mass spectrometer**

A high-frequency *mass spectrometer* in which the ions to be detected, with a selected value of the quotient mass/charge, absorb maximum energy through the effect of a high-frequency electric field and a constant magnetic field perpendicular to the electric field. Maximum energy is gained by the ions which satisfy the cyclotron resonance condition and as a result they are separated from ions of different mass/charge.

1991, 63, 1545; O.B. 202