

Figure Captions:

- Figure 1: A tree can be grown by very simple replacement rules (taken with the author's permission from Michael D. Mc. Guire "An Eye for Fractals"; Addison Wesley (1991)).
- Figure 2: Copy of the relevant page in J.R. Pierce's book on the "Theory and Design of Electron Beams", describing the Penning trap confinement scheme.
- Figure 3: Energy level scheme of a single particle confined in a Penning trap.
- Figure 4: (a) The PS 200 antiproton catching trap set-up, and (b) a sample spectrum of antiprotons captured from a single LEAR pulse.
- Figure 5: Schematic of the proposed Penning trap system for fusion studies.