



Charged Particle Traps: Physics and Techniques of Charged Particle Field Confinement (Springer Series on Atomic, Optical, and Plasma Physics)

F. G. Major, Viorica N. Gheorghe, Günther Werth

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Over the last quarter of this century, revolutionary advances have been made both in kind and in precision in the application of particle traps to the study of the physics of charged particles, leading to intensified interest in, and wide proliferation of, this topic. This book is intended as a timely addition to the literature, providing a systematic unified treatment of the subject, from the point of view of the application of these devices to fundamental atomic and particle physics.

The technique of using electromagnetic fields to confine and isolate atomic particles in vacuo, rather than by material walls of a container, was initially

conceived by W. Pauli in the form of a 3D version of the original rf quadrupole mass filter, for which he shared the 1989 Nobel Prize in physics [1], whereas H.G. Dehmelt who also shared the 1989 Nobel Prize [2] saw these devices (including the Penning trap) as a way of isolating electrons and ions, for the purposes of high resolution spectroscopy. These two broad areas of application have developed more or less independently, each attaining a remarkable degree of sophistication and generating widespread interest and experimental activity.

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