

One lecture (1:30 hrs) speaker: Prof. G. Werth

3. Penning traps

- a. Ideal Penning trap configuration
- b. Classical and quantum motion of charged particles
- c. Alternative trap geometries (Cylindrical traps, Planar traps)
- d. Influence of trap imperfections

4. Detection techniques

- a. In-situ detection
 - i. Fluorescence
 - ii. Image charge
- b. Destructive detection