

# Electron cyclotron resonance ion source

- An electron cyclotron resonance ion source (ECRIS) utilizes magnetic fields to produce high-energy ions for use in particle accelerators and nuclear physics research
- The process involves electron cyclotron resonance, where electrons absorb microwave radiation, creating high-energy collisions that ionize gas within the magnetic chamber
- This method is efficient for generating ion beams of various elements, offering precision in controlling the ion's charge and energy
- ECRIS is crucial for advancements in medical imaging, cancer treatment, and materials science

## Practical example: Particle accelerators

- Electron cyclotron resonance ion sources (ECRIS) are a crucial technology in particle accelerators, such as those used in physics research and medical applications
- They generate high-charged ions by using microwaves to heat electrons in a magnetic field, causing ionization of gases like argon or helium
- This process creates a plasma where ions can be extracted and accelerated to high speeds
- These accelerated ions are then used for experiments in nuclear physics or for cancer treatment in radiation therapy

# Electron Cyclotron Resonance Ion Sources



**G Orfield**

## **Electron Cyclotron Resonance Ion Sources:**

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