The proton number is the atomic number of the element, while the electron. If an atom gains electrons it acquires a negative charge. If it loses electrons, it becomes positively charged. The word electron is a combination of the words electric and ion. An ion is a charged atom or molecule. It is charged because the number of electrons do not equal the number of protons in the atom or molecule. Ion, any atom or group of atoms that bears one or more positive or negative electrical charges. Positively charged ions are called cations; . Thus, an energetic electron passing near or through an oxygen molecule, O₂, may force one of the electrons out of the molecule. The result is an ion pair. The content in this topic will work towards building an understanding of how atoms form ions and ions bond to form ionic compounds. An ion is an atom that has gained or lost one or more electrons and therefore has a negative or.

Finally, negative ions are discussed. Particle sources are an essential, integral part of an accelerator chain. Difference between ions and atoms. How to calculating charge on an ion. Electrons how many protons and neutrons does it contain and what is its charge.