

In the present work we study the identification of the particle using deposited charge per unit length in the Pixel detector (part of the ATLAS detector) which can offer an almost analogous read-out of the deposited charge. First, we parametrically describe the dependences of the deposited charge to reduce the volume of the data used in further analysis. Then we use these parameters as an input for particle identification. We elaborate the method of the identification that allows us to say in most of the cases whether the particle passing through the detector was pion, kaon, or proton. This method can be reproduced using Athena tool that has been written.