- What is this contribution about?

This contribution presents the measurements of primary cosmic-ray Iron flux performed by the AMS collaboration.

- Why is it relevant / interesting?

As one of the heaviest primary cosmic rays, the precise measurement of the Iron spectrum provides information about the cosmic-ray origin, acceleration mechanism and propagation properties.

- What have we done?

We performed the precise measurement of the Iron flux in the rigidity range from 2.65 GV to 3.0 TV and studied its rigidity dependence compared with lighter primary cosmic ray, such as Oxygen.

- What is the result?

Above 80.5 GV the rigidity dependence of the cosmic ray Fe flux is identical to the rigidity dependence of the primary cosmic ray He, C, and O class, which is different from the rigidity dependence of primary cosmic rays Ne, Mg, and Si class.