

RECIPE OF THE UNIVERSE



The ATLAS detector is like a giant microscope that lets us explore the world of particles.

Particles are the basic ingredients of our Universe. They mix together to create everything around us - even you and me!

Physicists have a recipe book for the Universe called the STANDARD MODEL. Whenever a new particle is discovered, it is added to the recipe book.

The Standard Model describes all of the particles we have found so far. It shows that there are two types:

- Force particles
- Matter particles called QUARKS and LEPTONS



FOR DECADES, OUR RECIPE BOOK WAS INCOMPLETE!
WE STILL HAD TO FIND THE HIGGS BOSON...

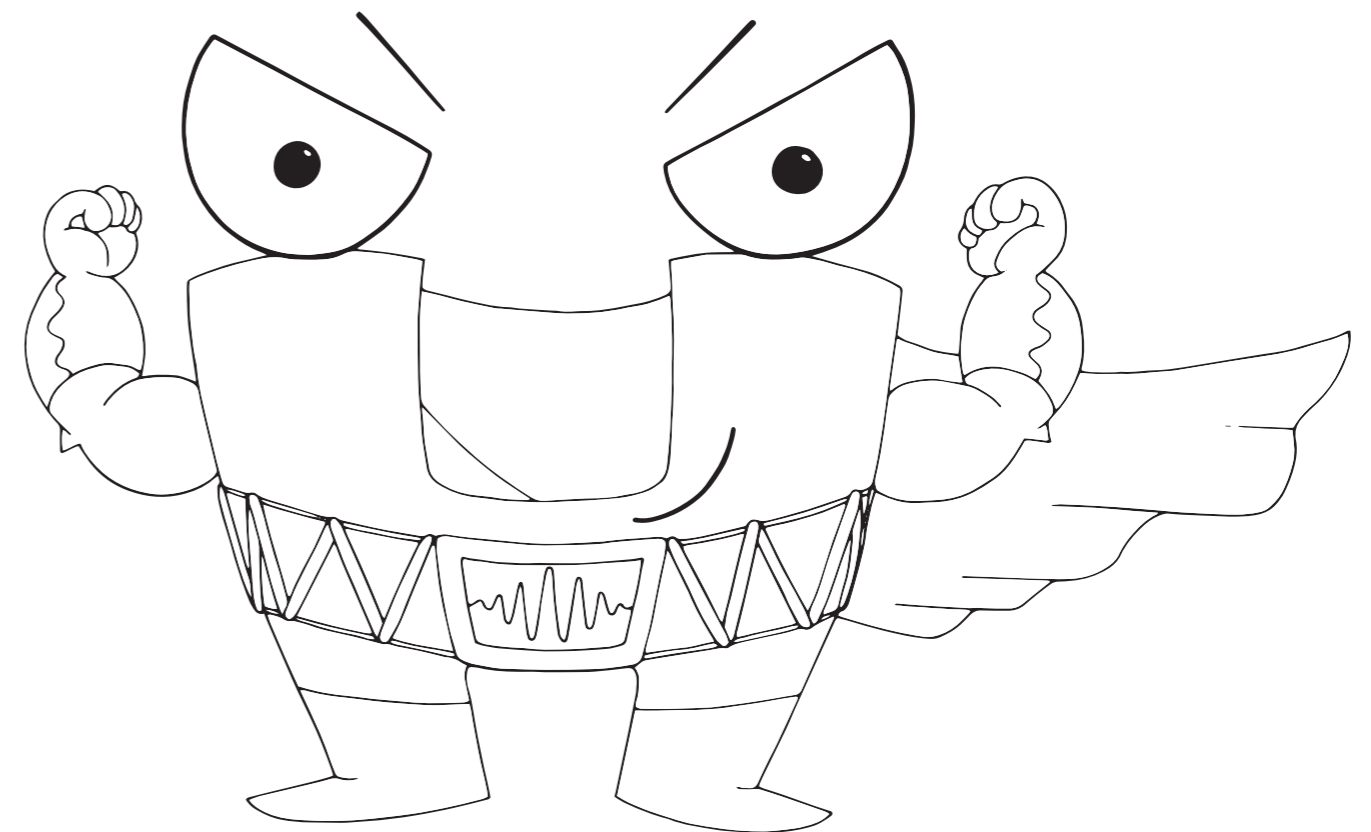
THE HIGGS BOSON

Physicists, like me, are always looking for NEW particles. I helped to discover the HIGGS BOSON in 2012!

This discovery was very exciting. For almost 60 years, scientists all over the world were searching for the Higgs Boson.

The Higgs Boson gives mass to all other particles. It is like a superhero - without it, the world would not exist!

The Higgs Boson completed the first page of our recipe book. What could be on the next pages?



HIGGS BOSON
[HIGZ BOH-SON] [NOUN]

1. *PHYSICS*. A FUNDAMENTAL PARTICLE THAT HELPS GIVE OTHER PARTICLES MASS.
2. THE ULTIMATE VIP (*VERY IMPORTANT PARTICLE*).