

Some times Physics is like the  
Platon's Allegory of the Cave

From the “shadow”  
to the theory



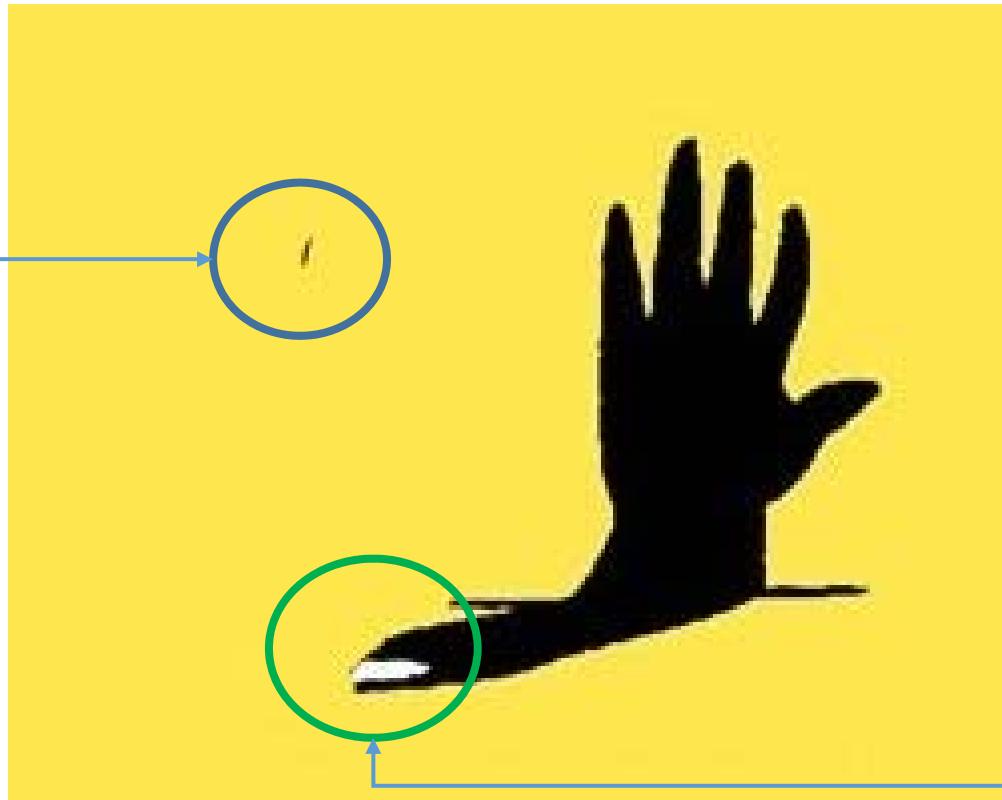
Is it a left hand?

Is it a right hand?



## Some times Physics is like the Platon's Allegory of the Cave

From the “shadow”  
to the theory



The smoking gun for a clever physicist:

Once we have the good inputs, we can infer a theory that gives a simple explanation of the shadow, the black point and the white region:



Once we have the good inputs, we can infer a theory that gives a simple explanation of the shadow, the black point and the white region: **IT IS A RABBIT!**



We have  $10^{500}$  different animals able to give the same shadow

# MUCHAS GRACIAS

- Thanks to Pepe, who introduced me in Physics
- Thanks to Bertrand, who has been like my second advisor.
- Thanks to Vincent, to whom I owe much. Big hits and great fights. Without any doubt the most human relationship.
- Thanks Pedro, my first co-worker in the department.
- Thanks to Sergio, who has shown me the beautiful place of Umbria.
- Thanks to Quico, for all these years of living in the department and institute.
- I will thanks everyone in the IFIC and the Department

And especially **THANK YOU** to my main  
collaborators:

- ALEJANDRO MARTÍ
- AURORE COURTOY
- MARIA TERESA CAPILLA
- GABRIEL AMOROS
- JORGE PORTOLES