

# Pyramid Hunters



The secret chambers in the Chephren  
Pyramid



**Pyramid Hunters**



**Who we are?**



Pyramid Hunters

# Our team



Kamil Krakowski



Ewa Pijus



Kamil Szymczak



Bartosz Gutowski



Kamila Komorowska



Małgorzata Trojanowska



Witold Józwiak



**Pyramid Hunters**

# Our coach



**Janusz Kempa**



Pyramid Hunters

# Our town





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# Our school

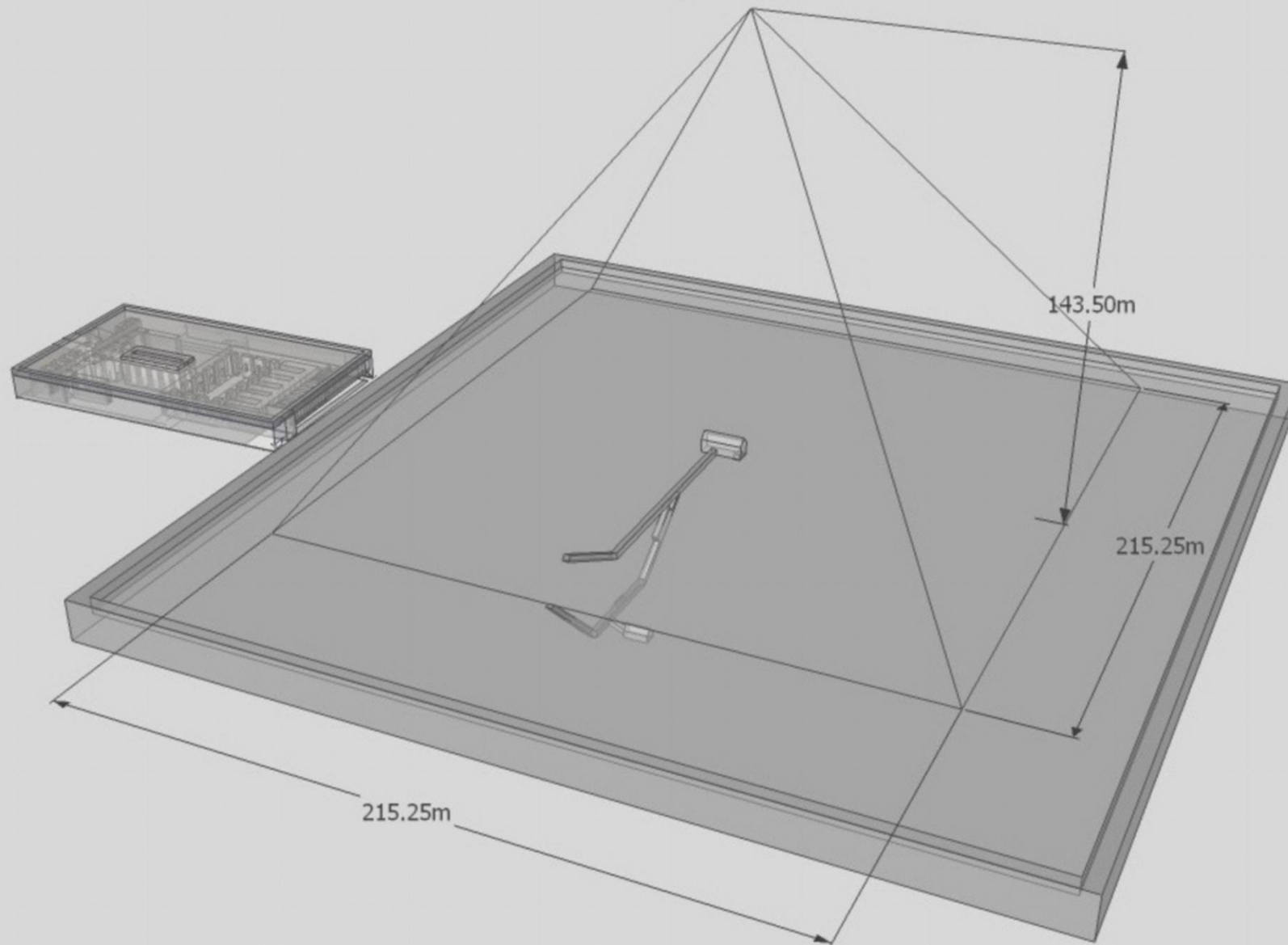




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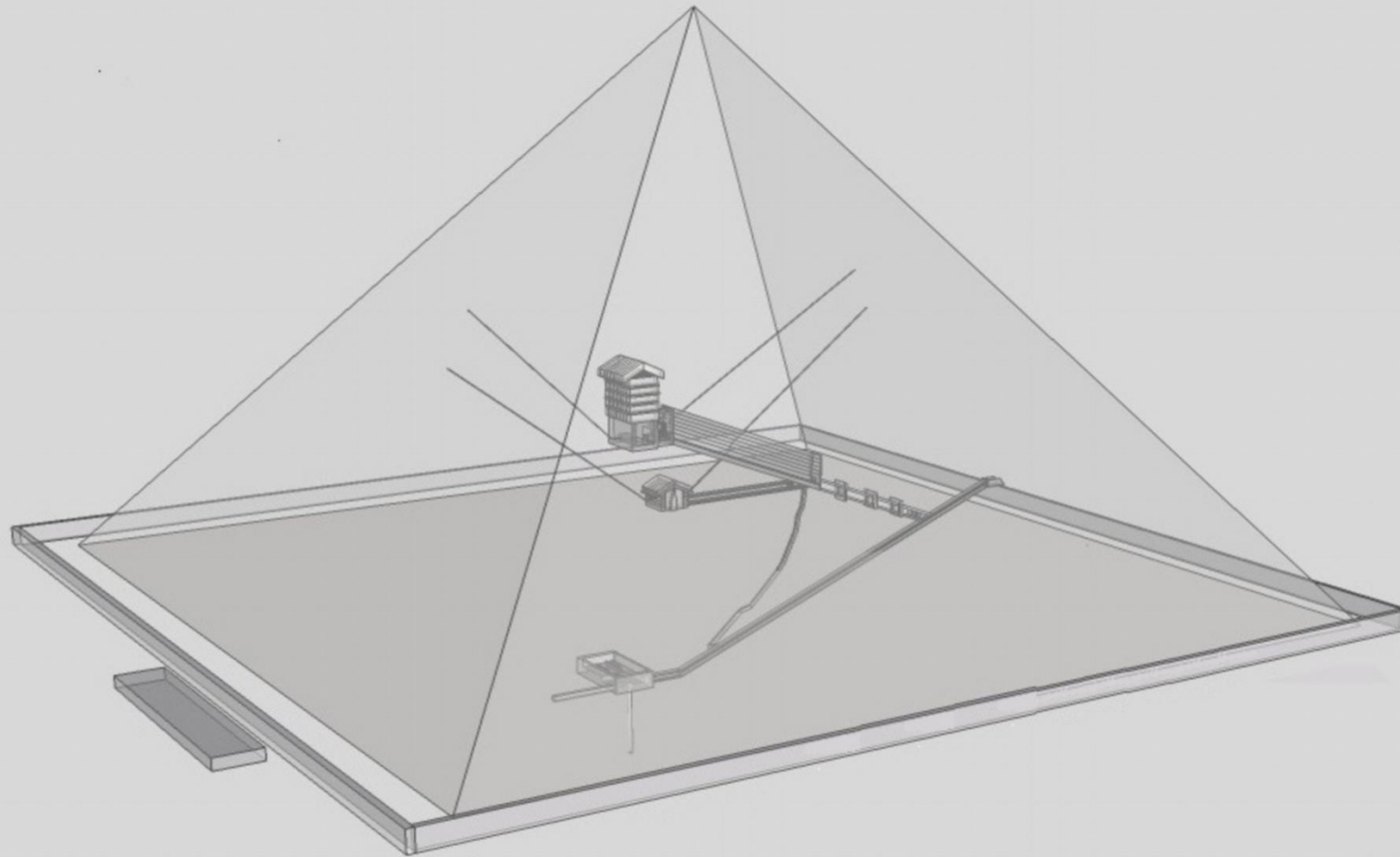


Why is it such a big deal?

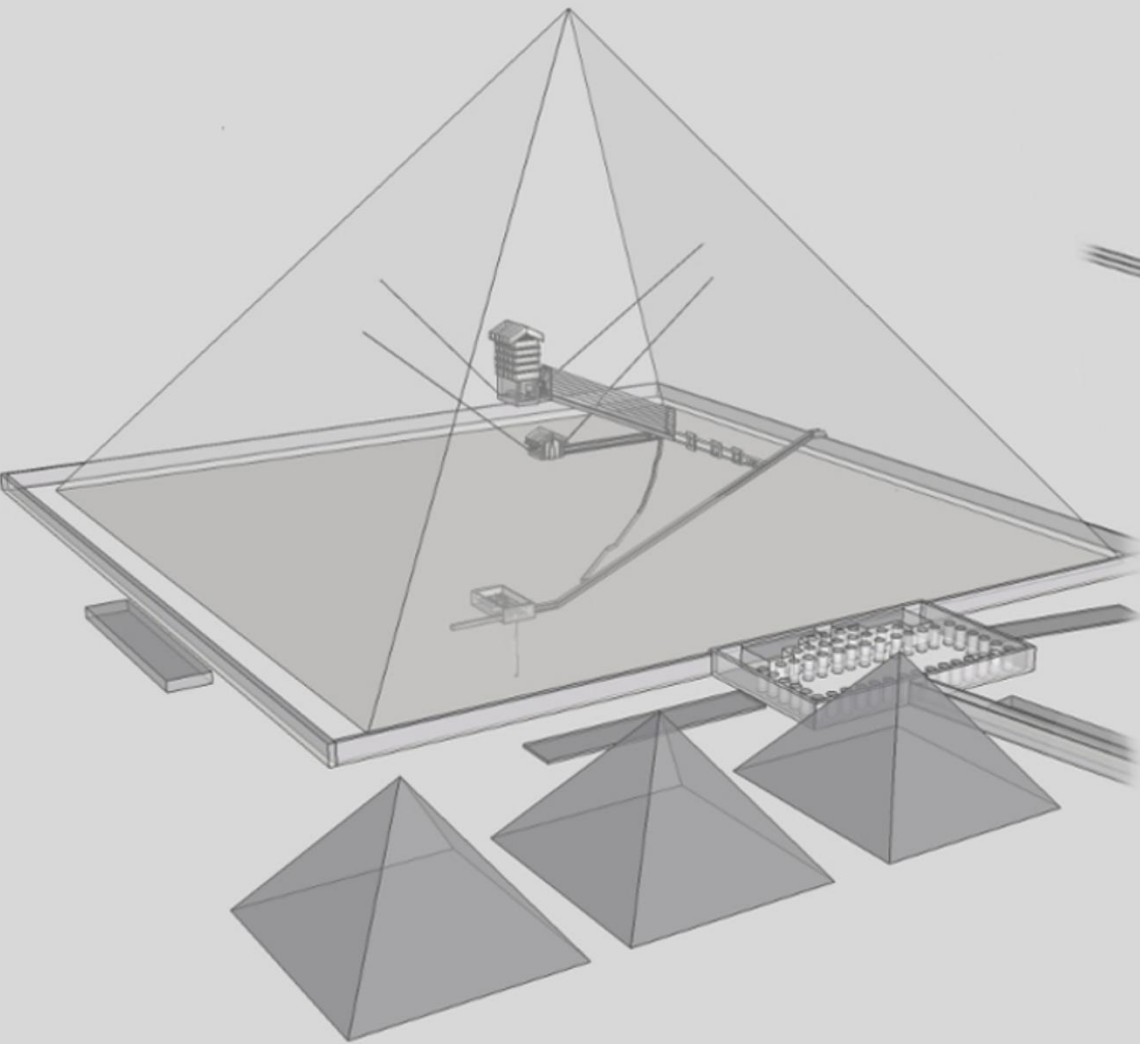


Chephren Pyramid

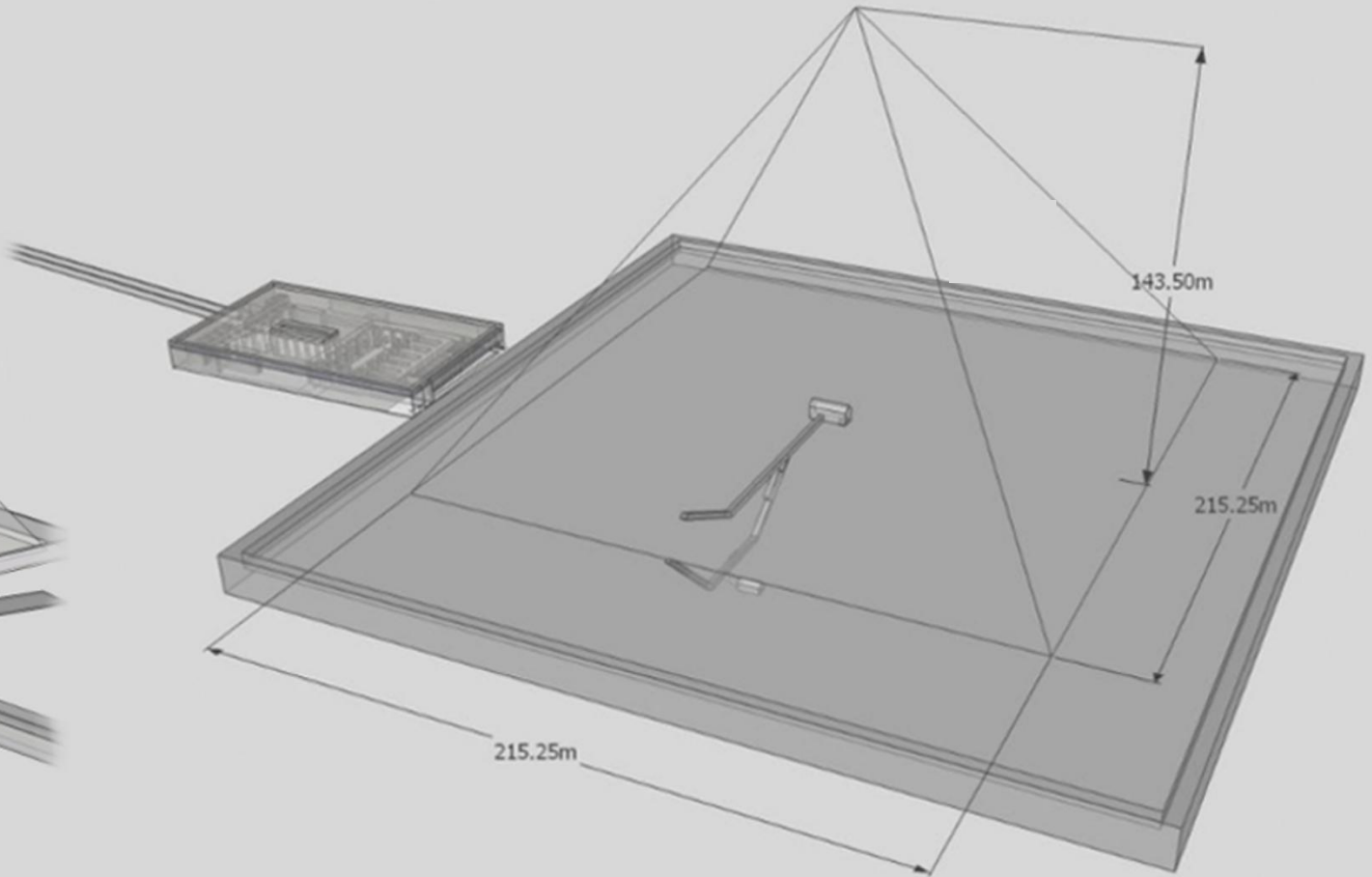




# Cheops Pyramid



Cheops Pyramid



Chephren Pyramid





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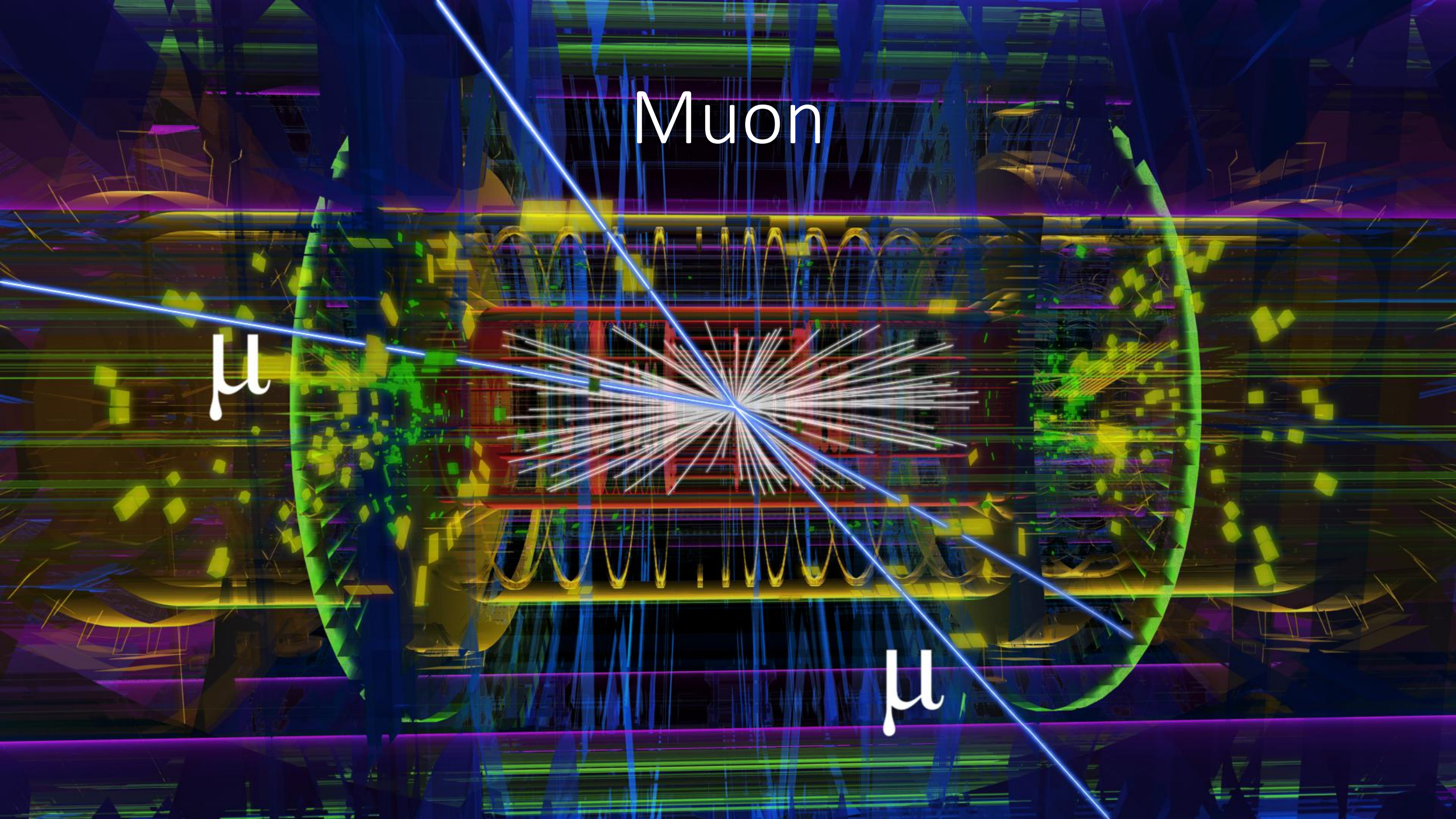


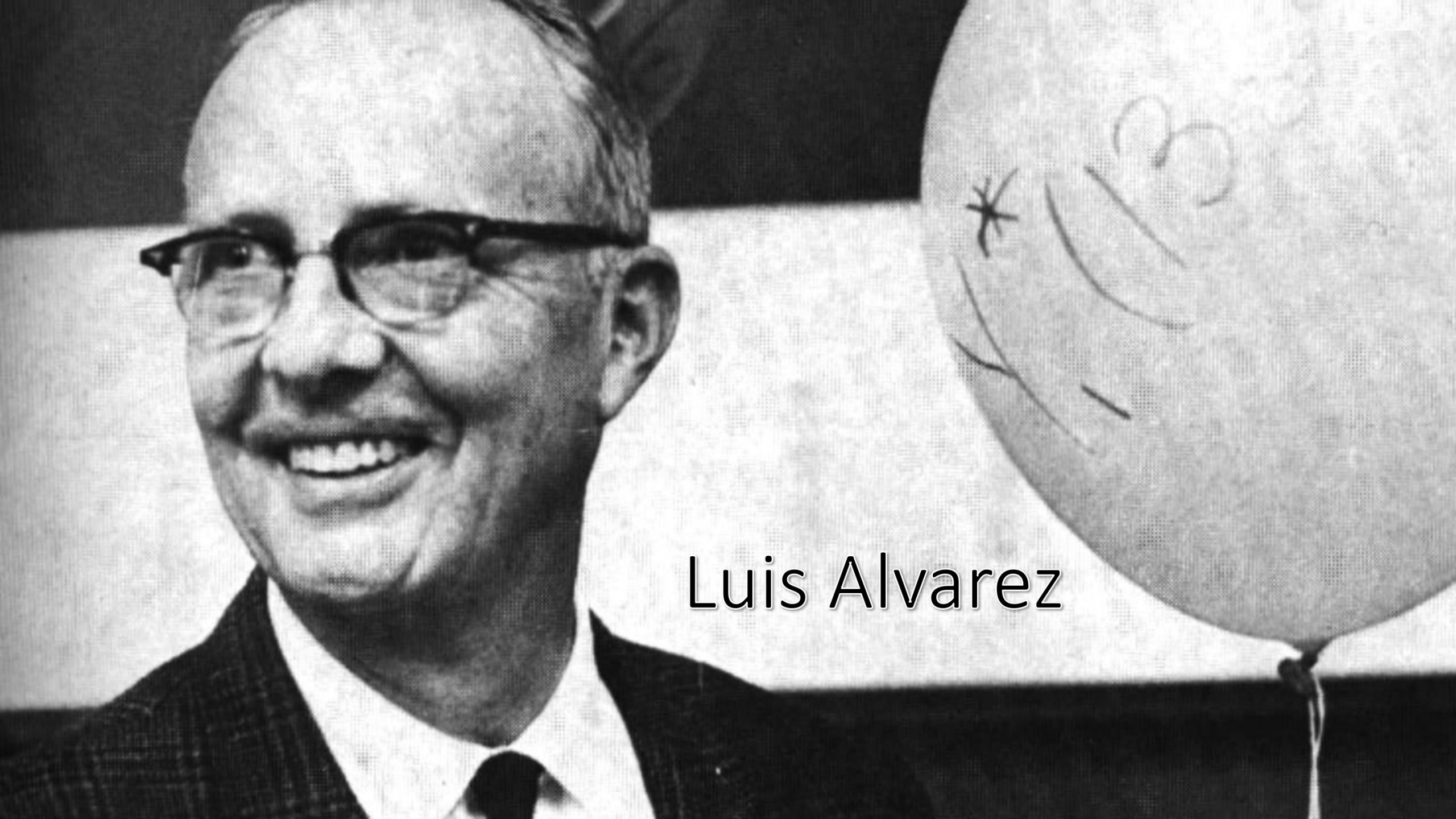
# How physics can help archeology?

Muon

$\mu$

$\mu$



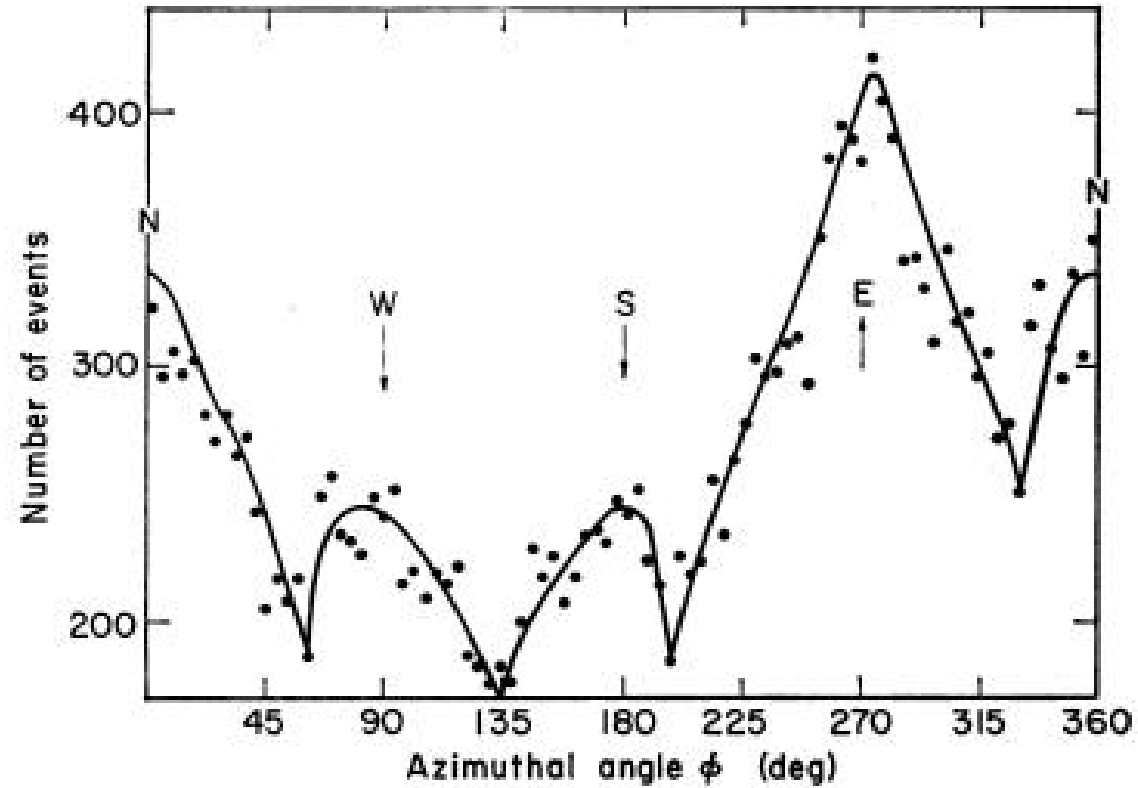


Luis Alvarez



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# Alvarez's data





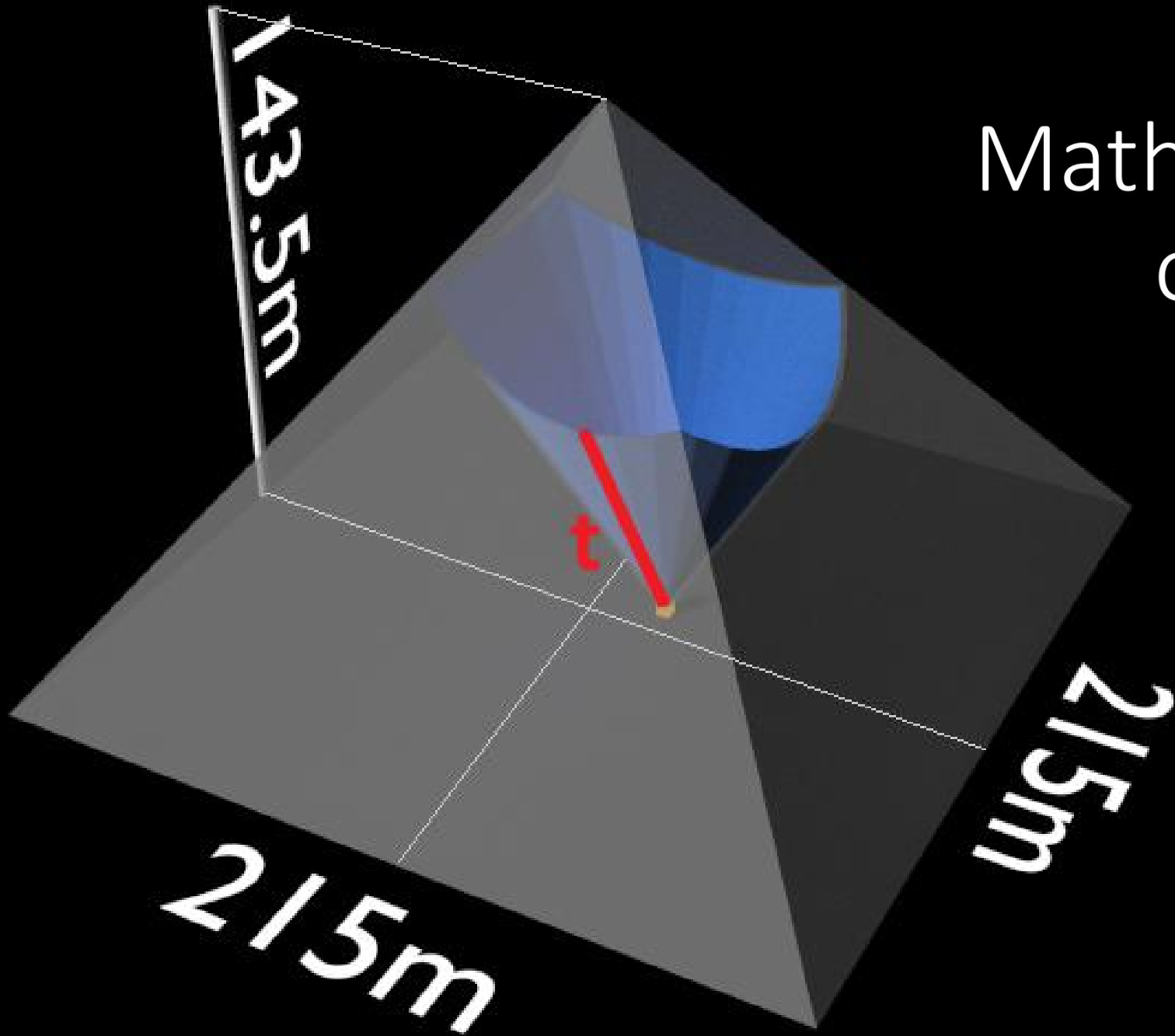
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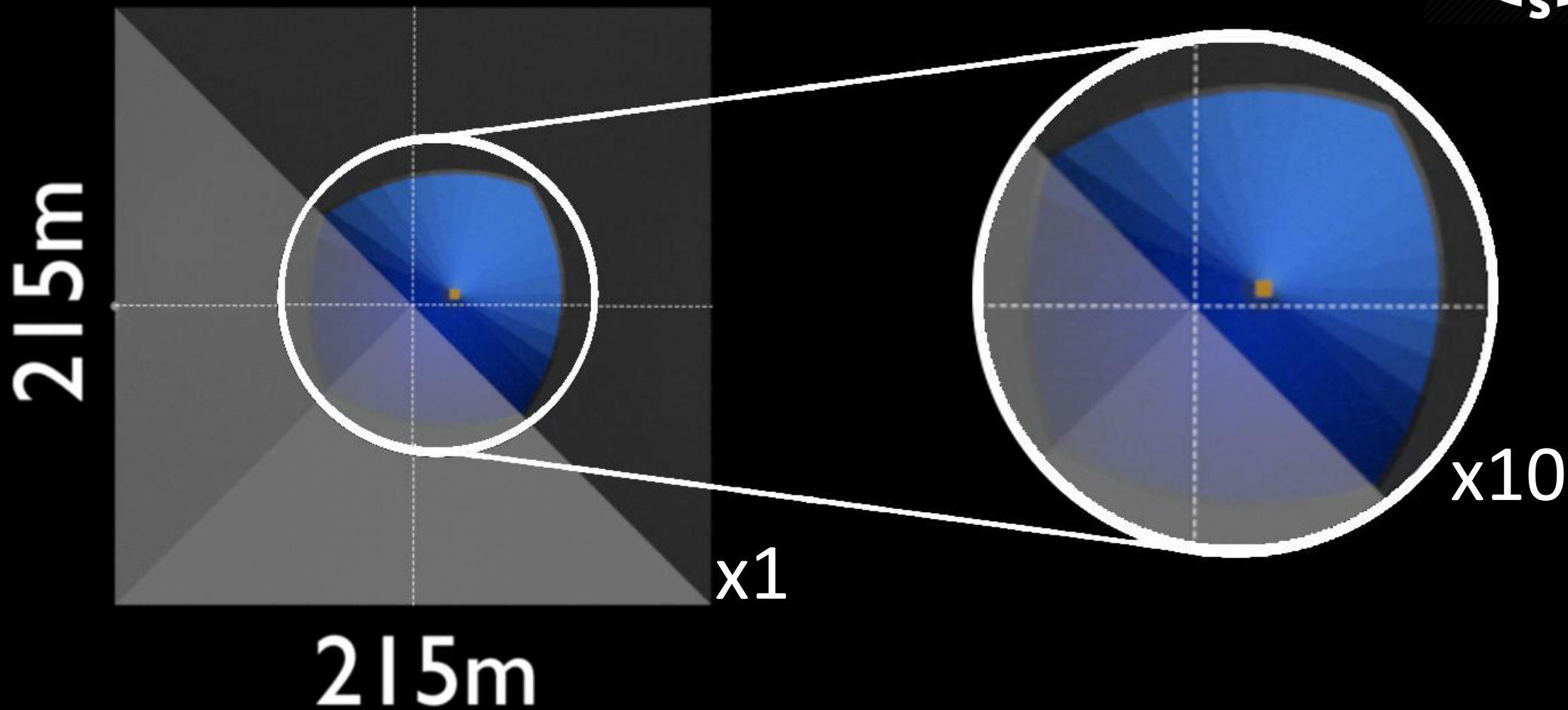
What is our role in  
researching pyramids?



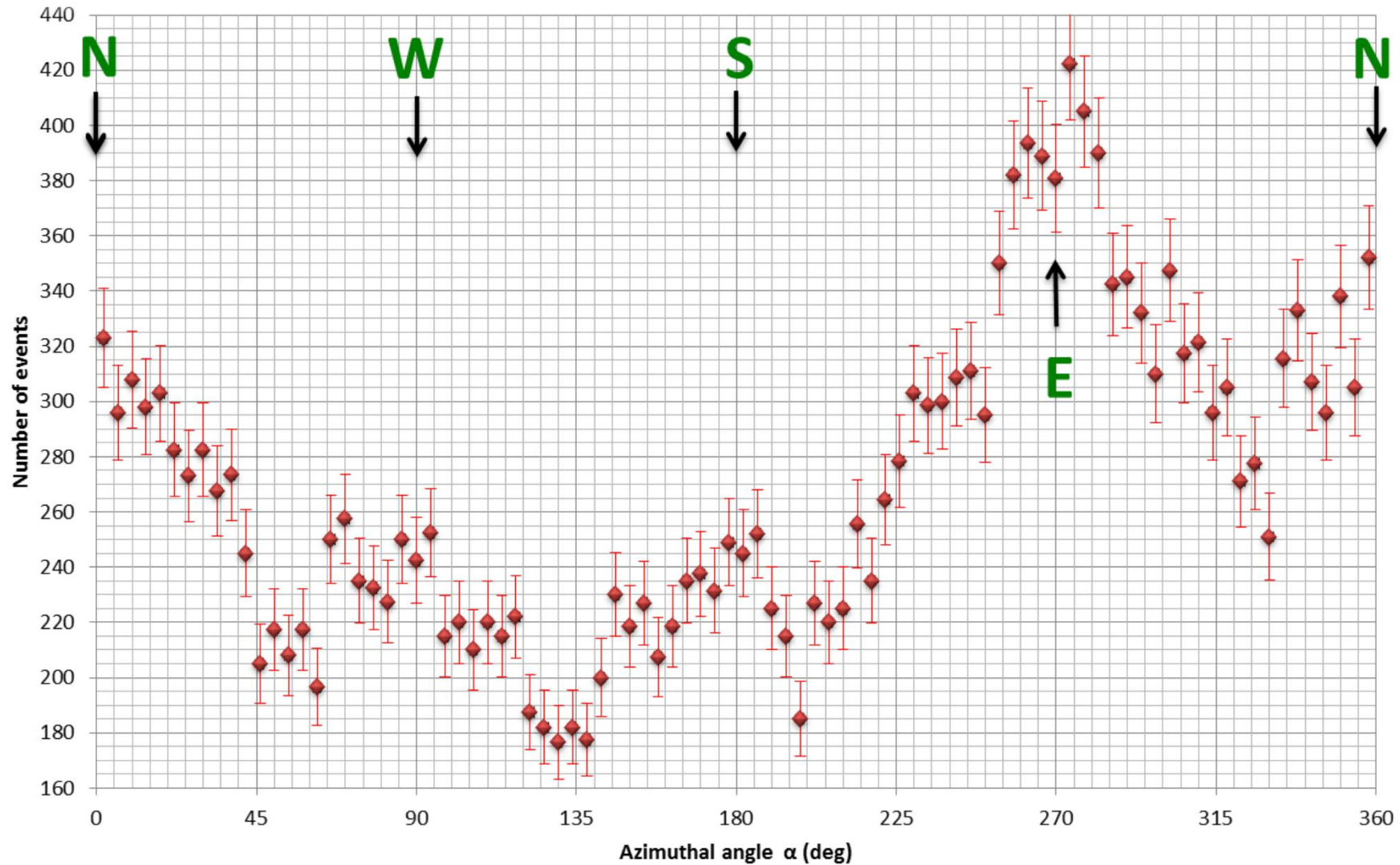
Mathematical model  
of distances



# Vertical projection

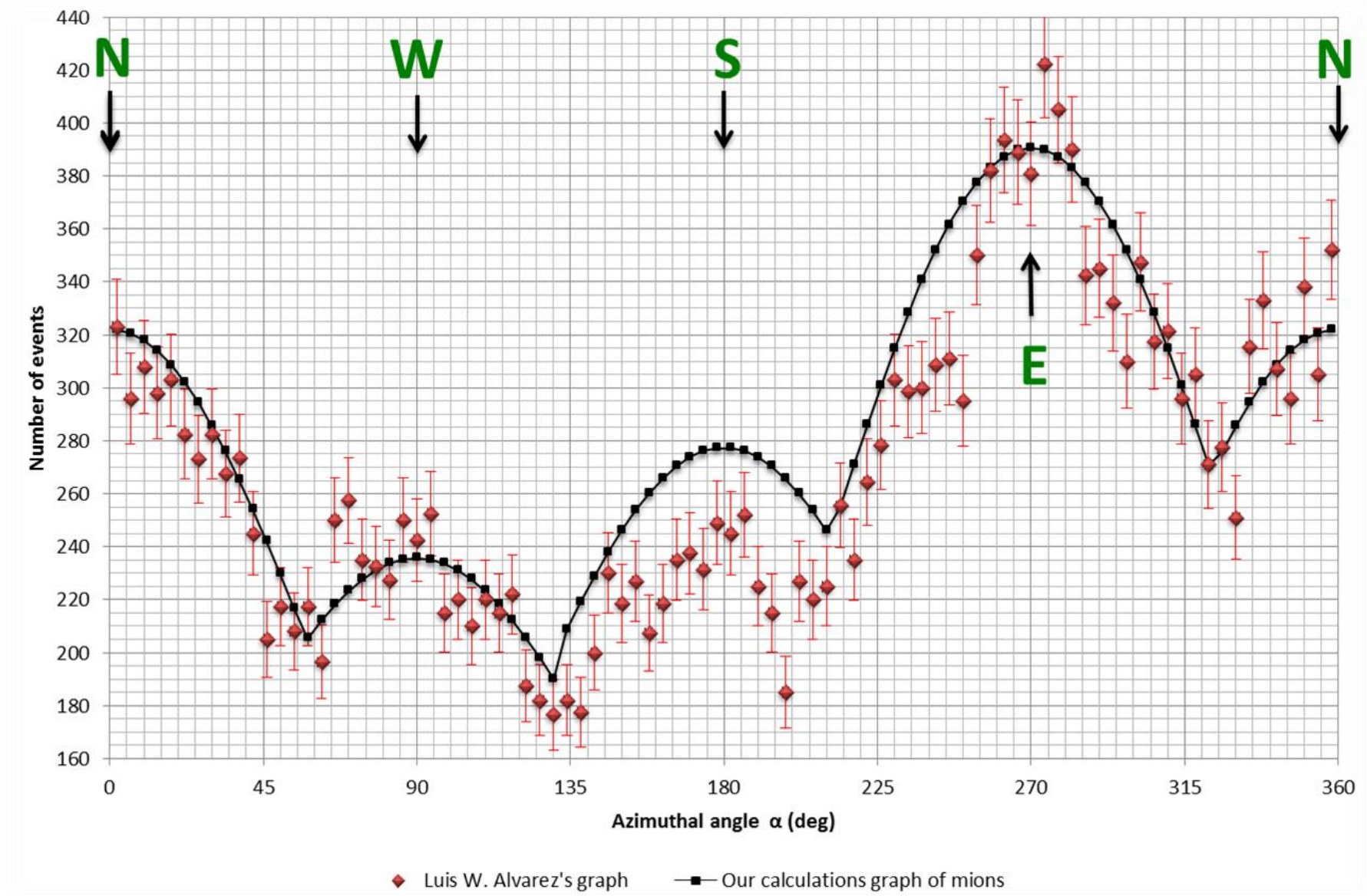


# Variation of cosmic-ray intensity with azimuthal angle from Alvarez's experiment



◆ Luis W. Alvarez's graph

# Variation of cosmic-ray intensity with azimuthal angle, as comuper model and Alvarez's experiment



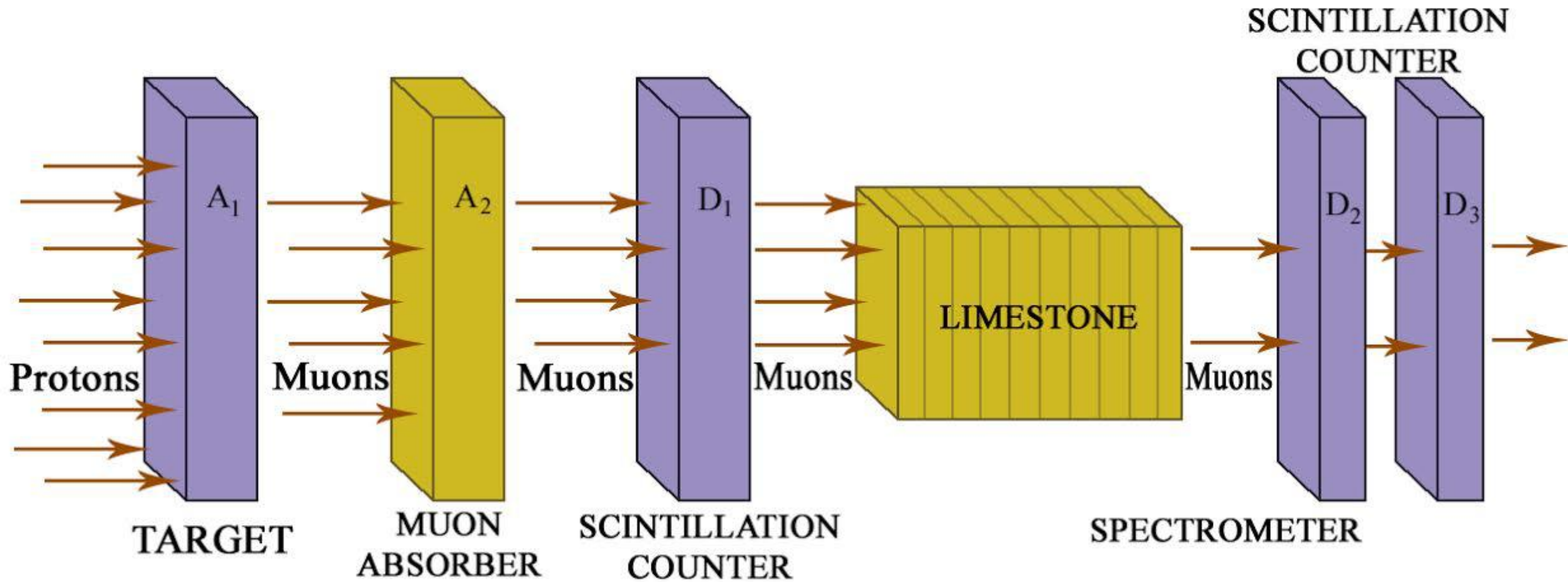


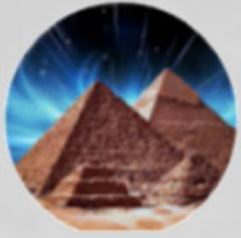
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But how CERN can help?

# Experiment set up





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What will it all contribute to?







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# References



1. Luis. W. Alvarez, *Search for Hidden Chambers in the Pyramids* (Science 06 Feb 1970)
2. C. Grupen, *Astroparticle Physics* Springer 2005
3. V. V. Makarov, A. A. Lagutin, A. G. Prokopets, A. I. Prokopets, A. I. Goncharov, *Muon Range Fluctuations in Rock*, Moscow State Technological University STANKIN, Moscow, Russia, Altai State University, Barnaul, Russia

Any questions?  
Contact us:



[pyramidhunters@gmail.com](mailto:pyramidhunters@gmail.com)

