



# REYES

REMOTE EXPERIENCE FOR YOUNG ENGINEERS AND SCIENTISTS  
EXPERIENCIA A DISTANCIA PARA JOVENES INGENIEROS Y CIENTIFICOS

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- 📺 @reyes-stem
- 📘 /ODUREYES

**Berkeley**  
UNIVERSITY OF CALIFORNIA

  
**OLD DOMINION**  
UNIVERSITY

Caracas, Venezuela

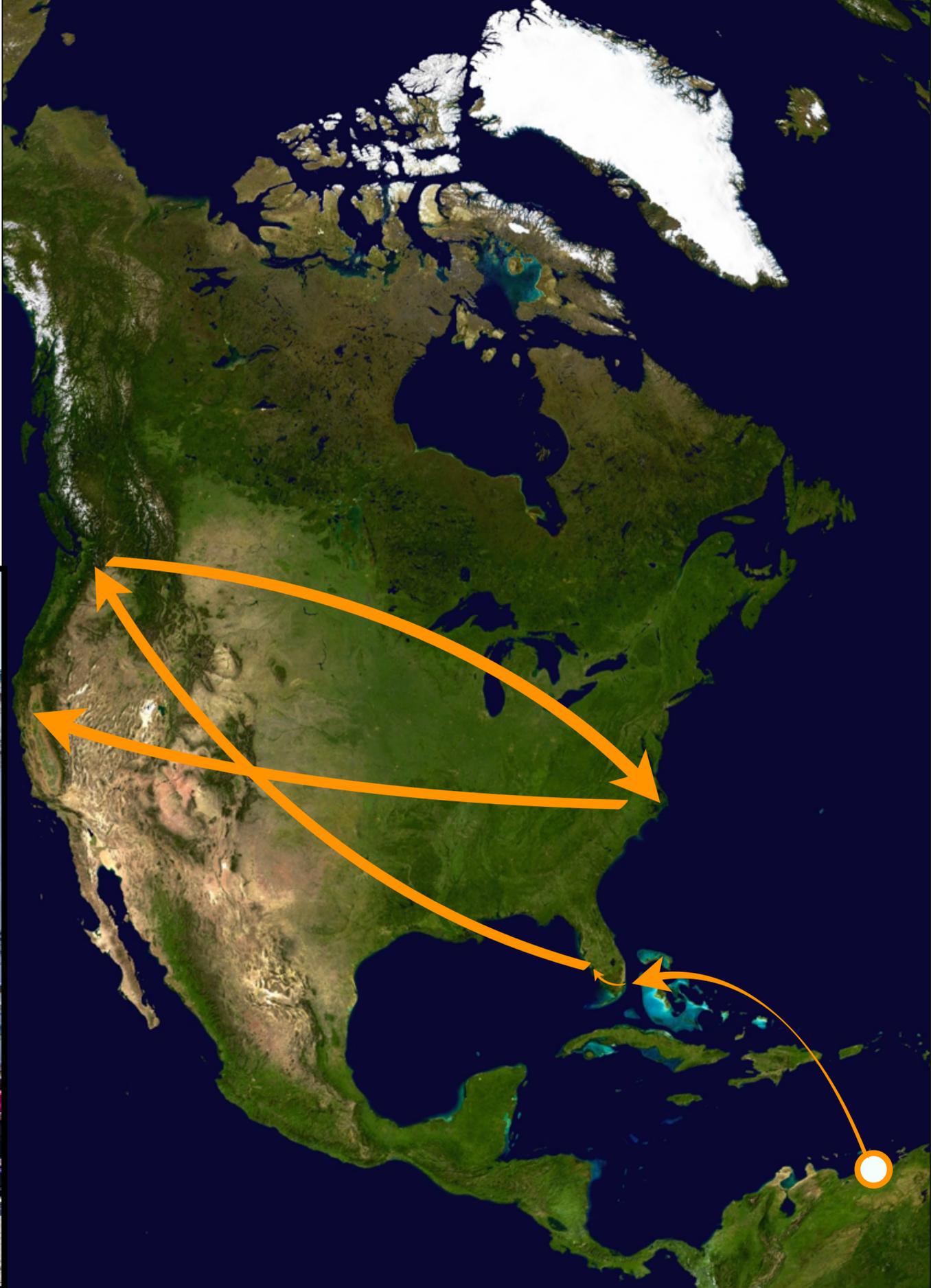




Jefferson Lab  
Newport News, Virginia



University of California, Berkeley  
Berkeley, CA



De dónde venimos?

Como fuimos creados?

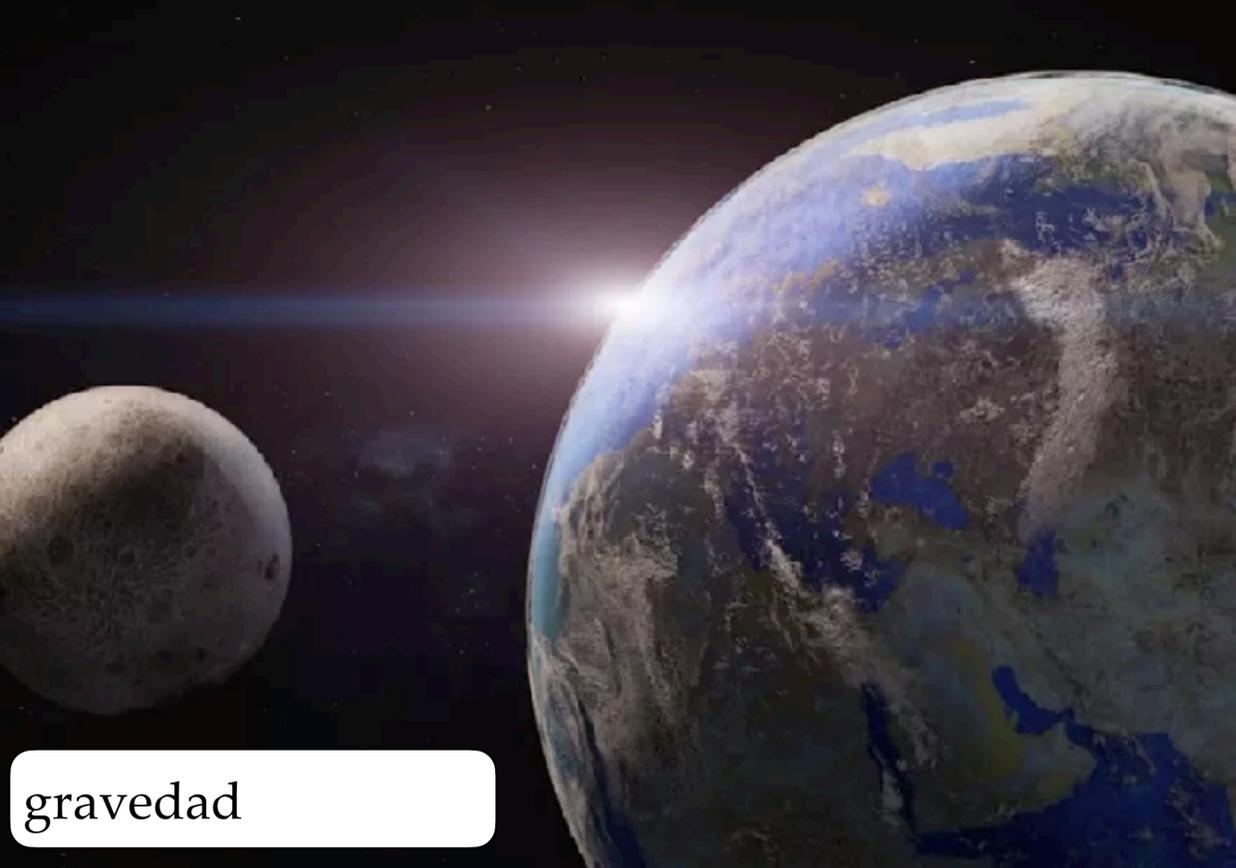
De qué estamos hechos?

**Carl Sagan**  
somos polvo de estrellas



¿cuales son las fuerzas  
fundamentales de la naturaleza?

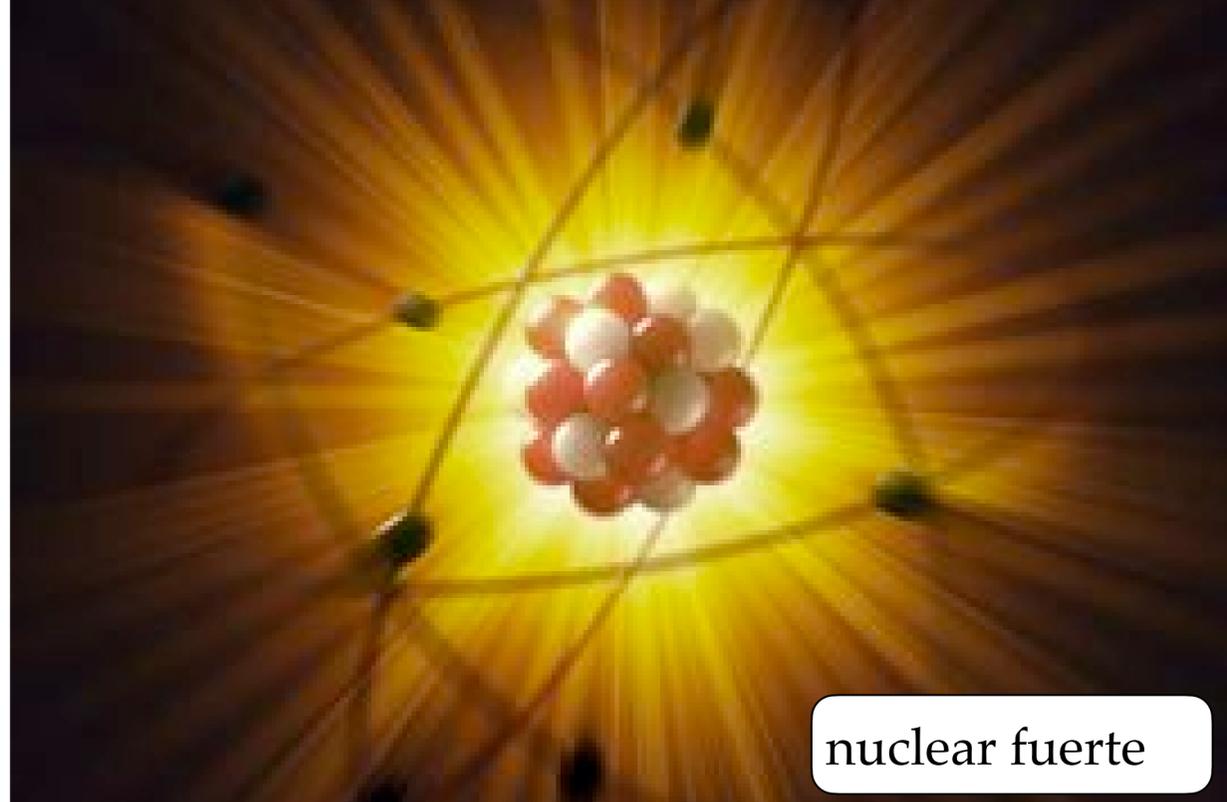




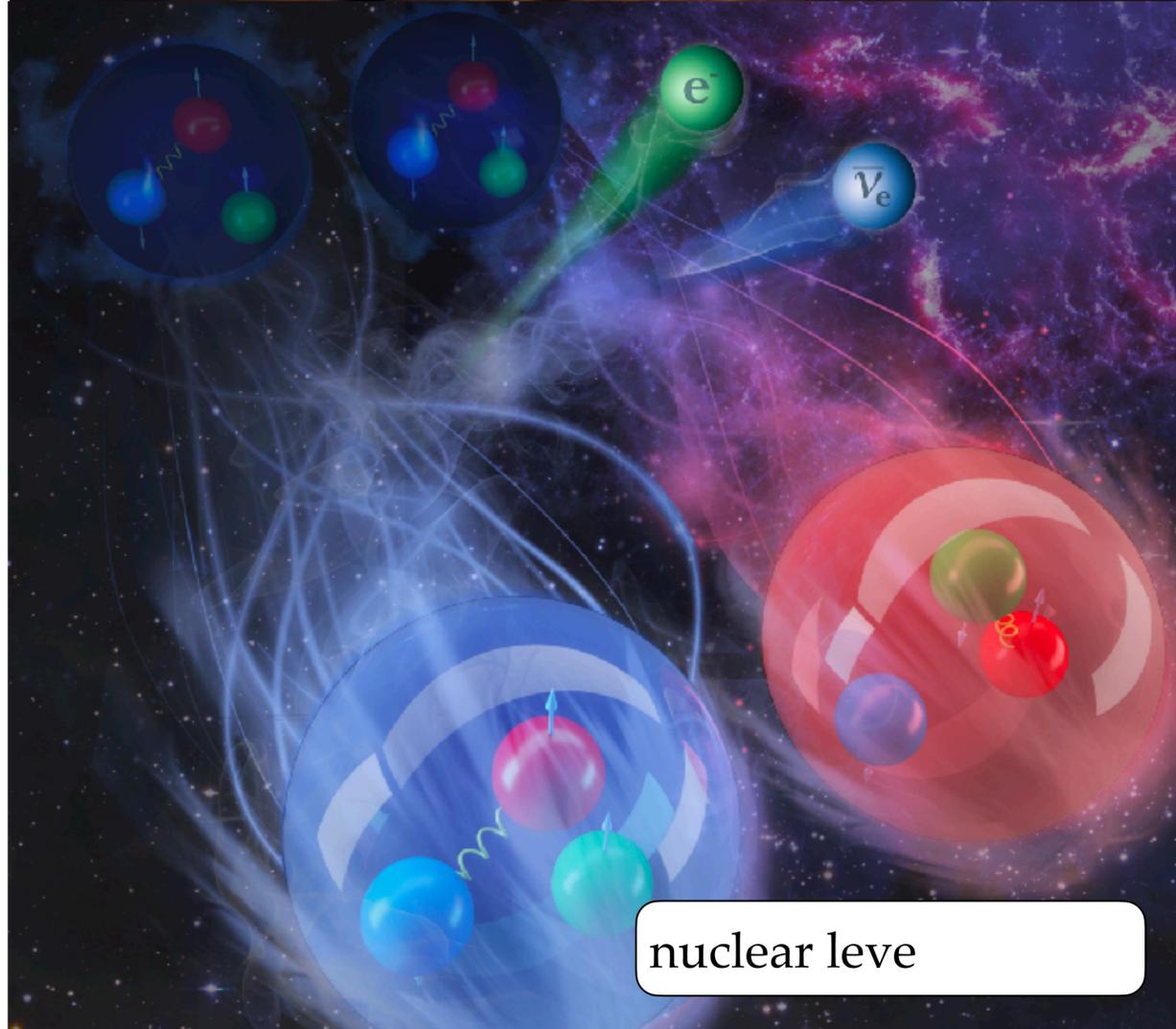
gravedad



electromagnetica



nuclear fuerte

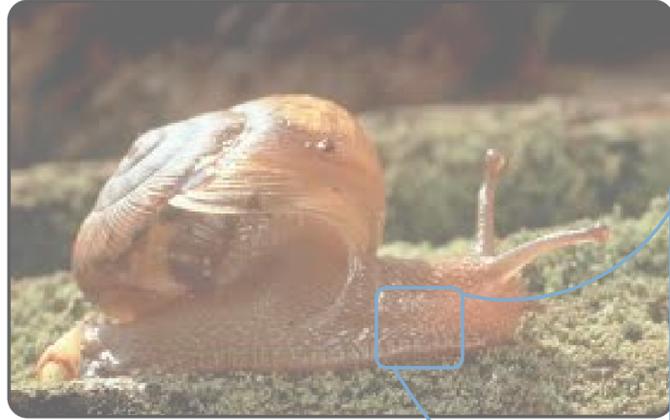


nuclear leve

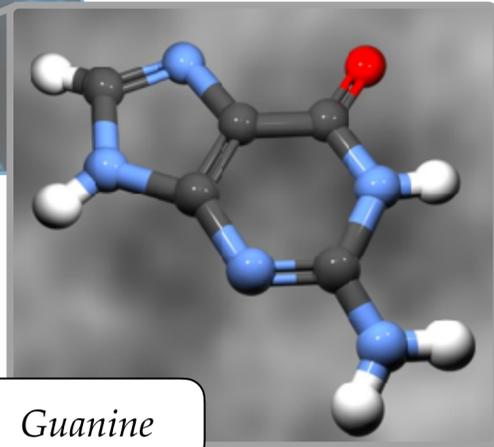




DNA



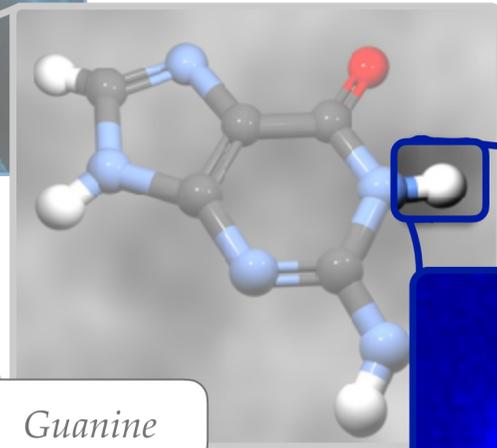
*DNA*



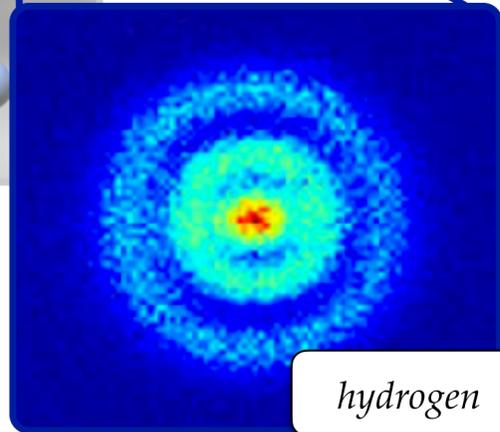
*Guanine*



DNA



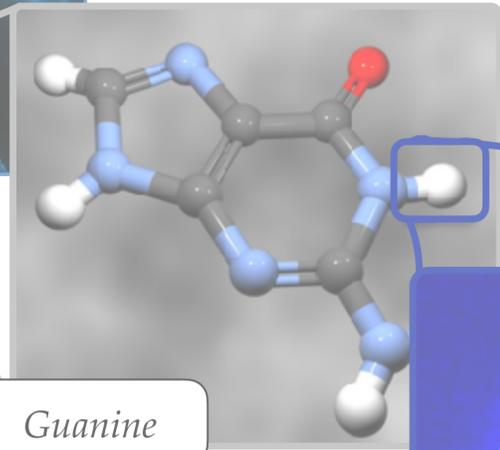
Guanine



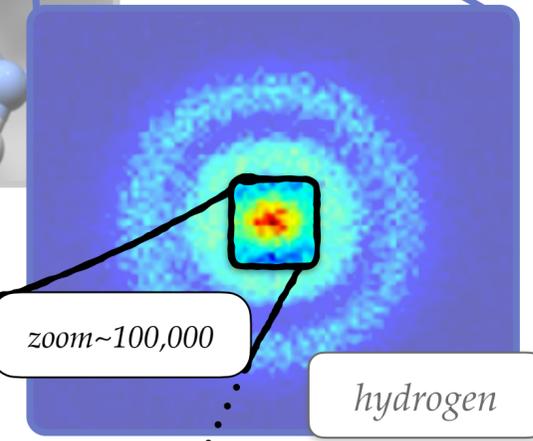
hydrogen



DNA



Guanine

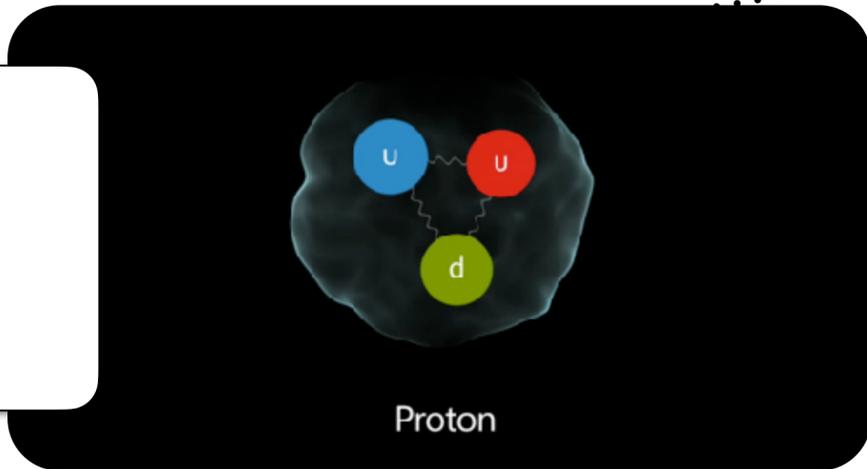


zoom~100,000

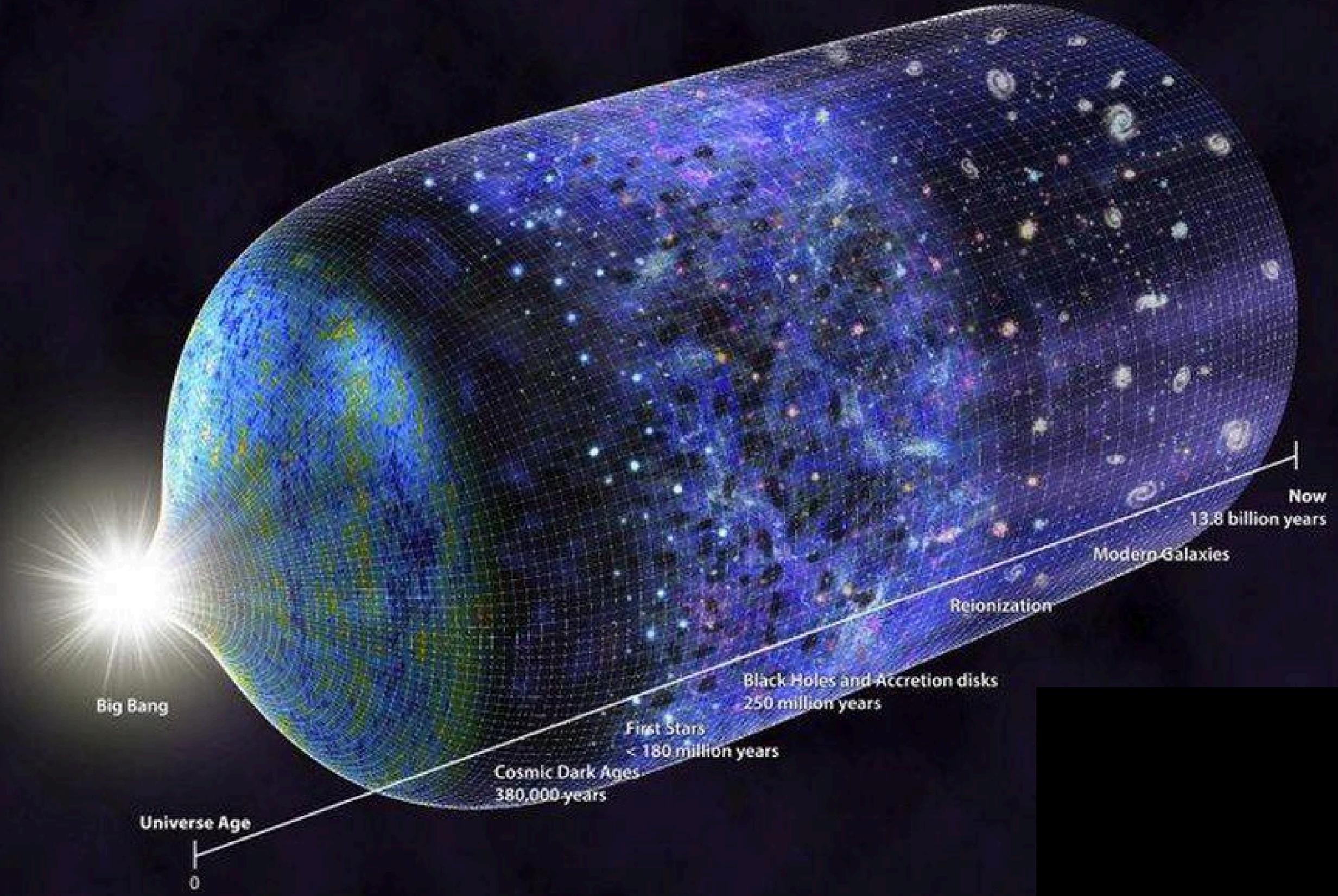
hydrogen

*the proton:*  

- the lightest of all nuclei
- carries 99.95% of hydrogen's mass
- made of quarks and gluons



Proton



Big Bang

Universe Age

0

Cosmic Dark Ages  
380,000 years

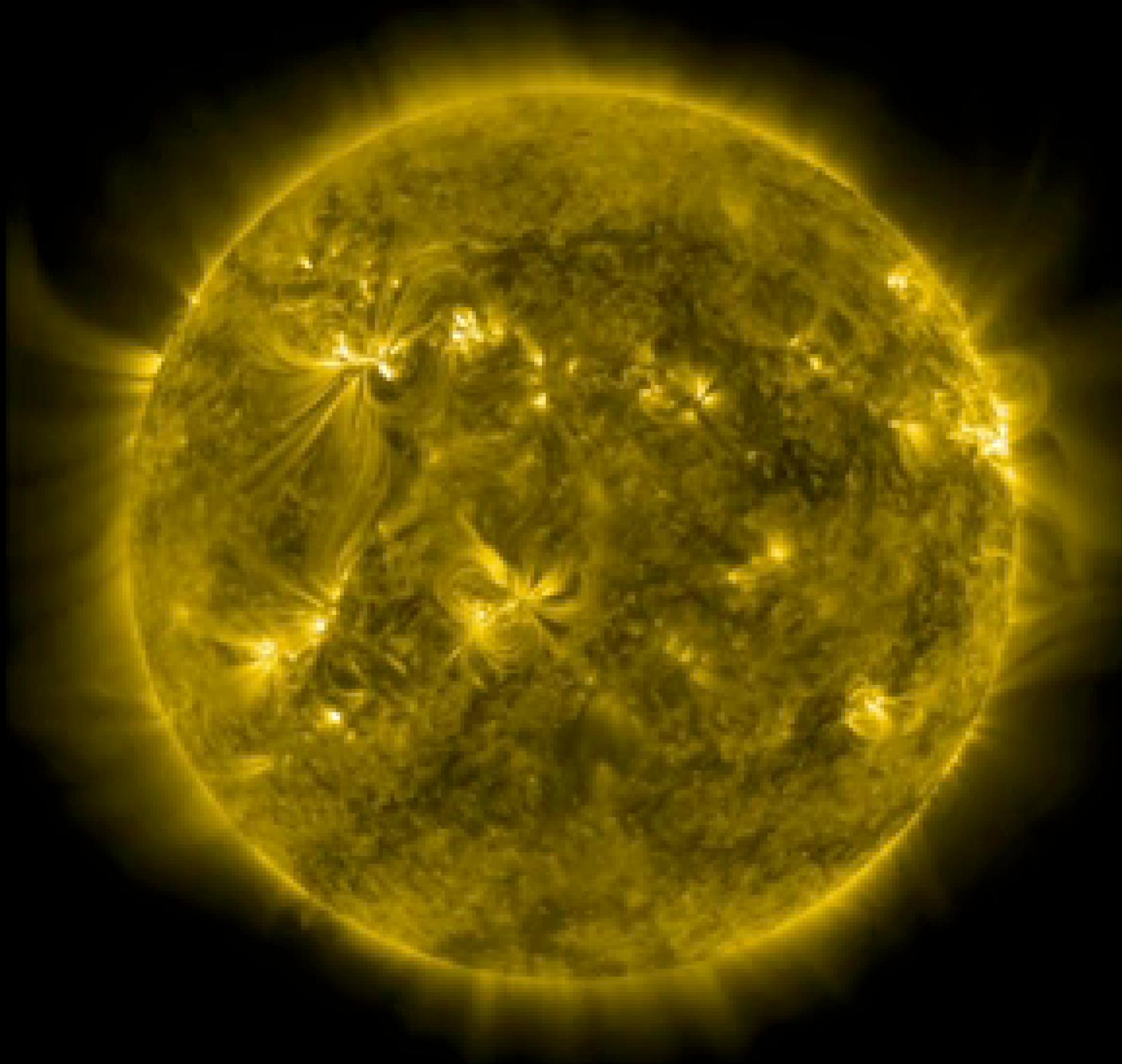
First Stars  
< 180 million years

Black Holes and Accretion disks  
250 million years

Reionization

Modern Galaxies

Now  
13.8 billion years



# Experiencias de divulgación y educación

**REYES**

(REMOTE EXPERIENCE FOR YOUNG ENGINEERS AND SCIENTISTS)

**PYTHON 4 PHYSICS**

**HALES**

(HIGH ACHIEVING LATINX IN ENGINEERING AND SCIENCES)

**ODU/JLAB REU**

**SULI**

**ESTANCIAS DE VERANO PARA MEJICANOS EN BERKELEY**



# REYES



STEM-H virtual sessions and classes; supported by UC Berkeley and Old Dominion U.



Free and open to the public, accessible via YouTube



Mentoring from world experts



entomología

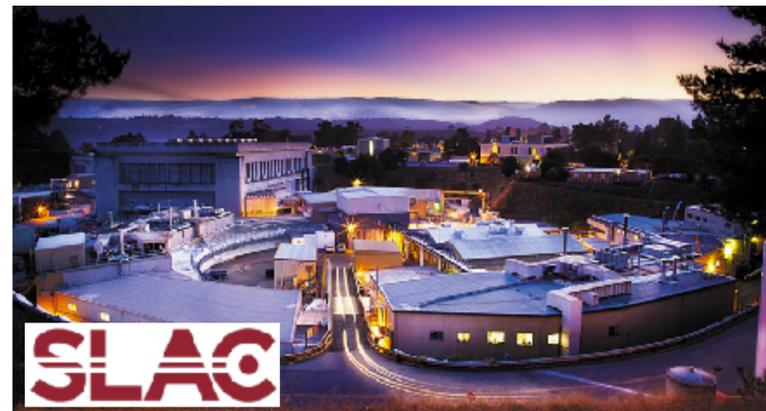


inteligencia artificial



computadoras cuánticas

# TEMAS



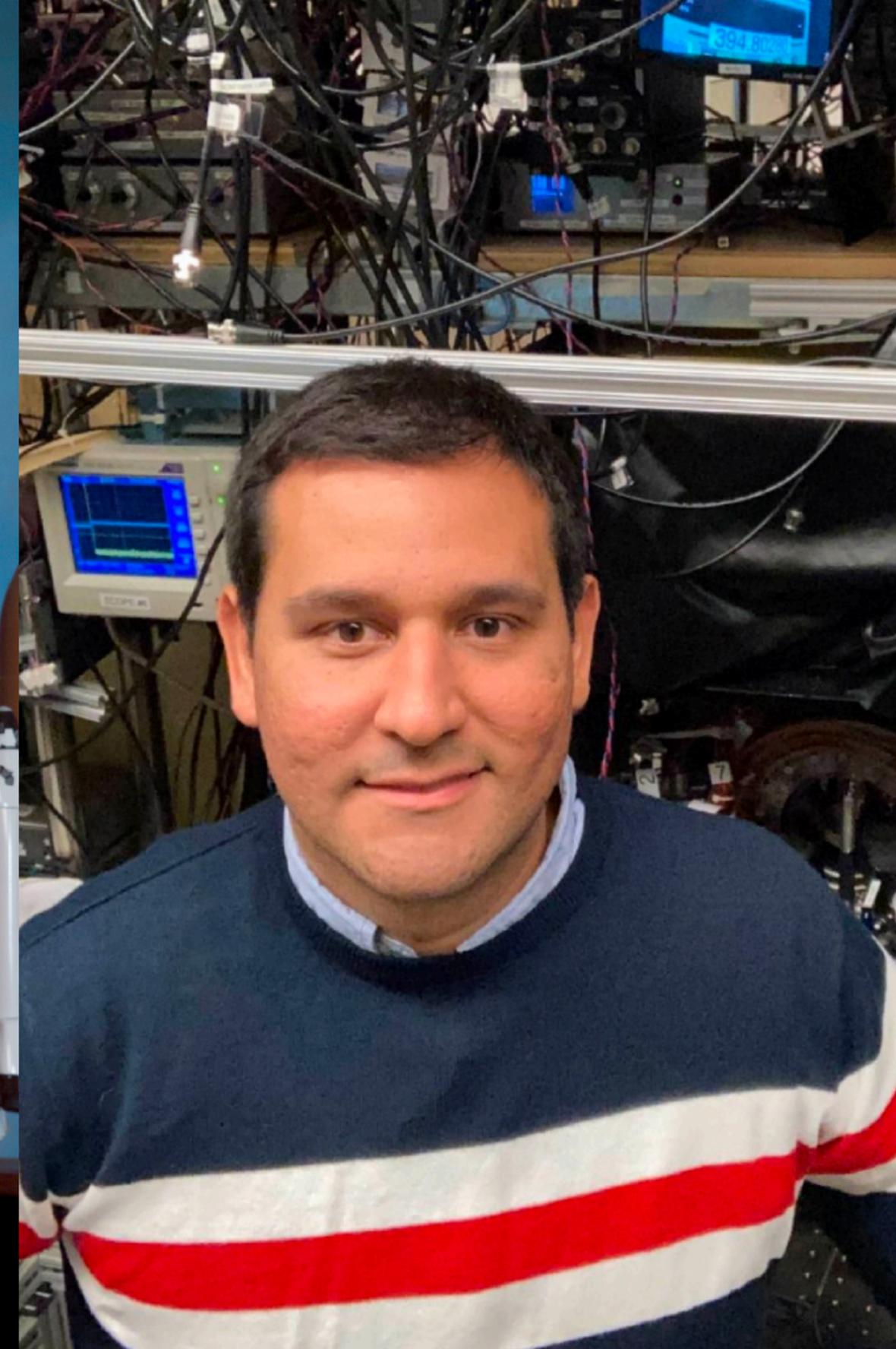
**EXPERTOS**



Jose Hernandez



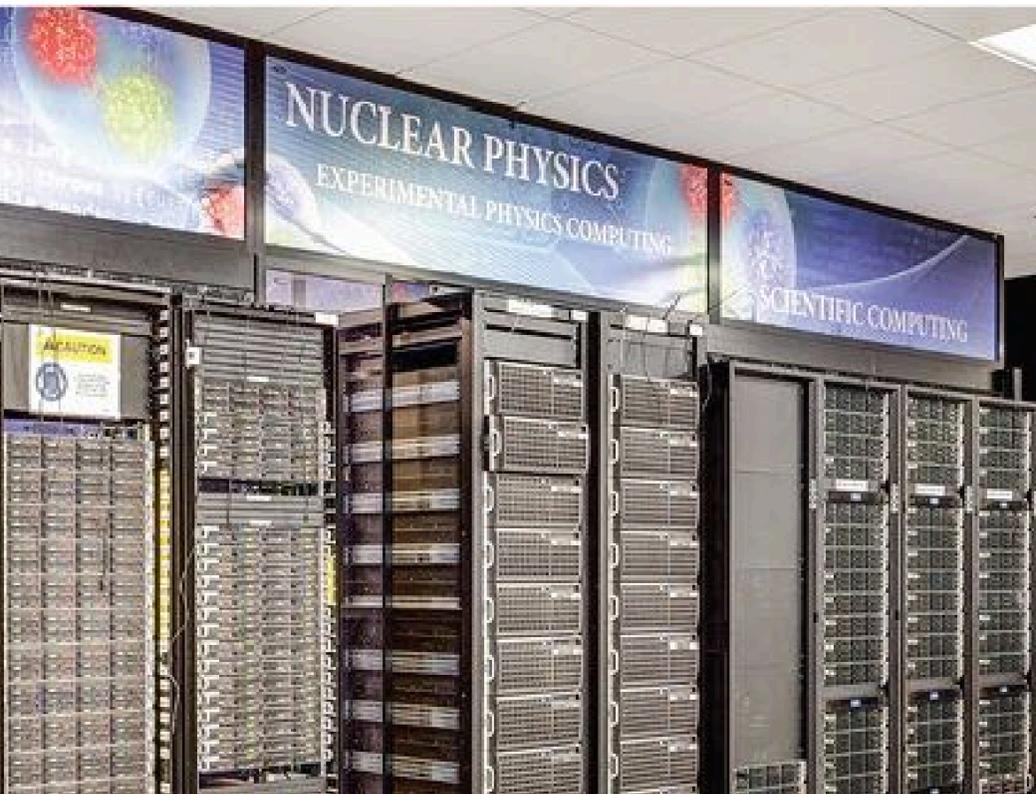
Elen Ochoa



Edwin Pedrozo Peñafiel

# Clases

Python4STEM



hosted live starting June 27

Fundamentales de ingeniería



recordings available via YouTube

Musical flow of STEM



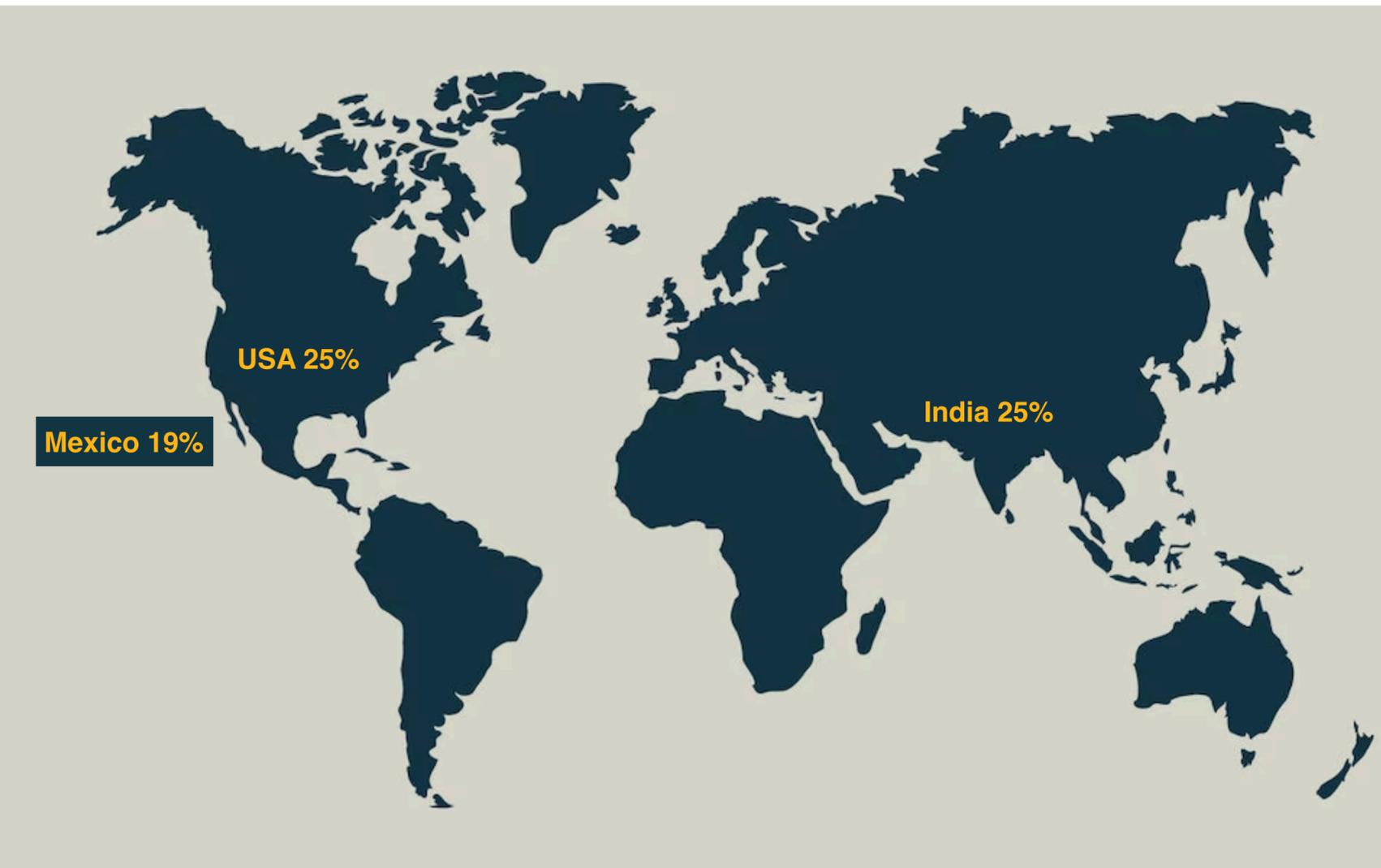
recordings available via YouTube

# Programa de mentoría



- **Mentoría basada en la investigación**
- **Abierto a todos**
- **El 25% son estudiantes de primera generación.**
- **Los resultados incluyen una presentación, informe y actas.**
- **Los estudiantes y mentores obtienen certificados de participación.**

# Algunas estadísticas



- más de 12.000 inscritos
- más de 135 países
- 75% mayores de 18 años, 25% menores
- 75% fuera de EE. UU.
- 41% mujeres // 56% hombres // 1,5% no binarios
- 48% Universidad // 21% HS // 17% Graduado.
- %75 reportan que se sienten mas motivados a continuar en las ciencias

# PROGRAMA VIRTUAL DE STEM-H



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