DUNE in 10 minutes

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New Perspectives 2018

June 20th 2018

DEEP UNDERGROUND NEUTRINO EXPERIMENT

Deep Underground Neutrino Experiment

1000+
scientists

170+
laboratories
and
universities

30+
countries

Far Detector + Near Detector (+ Beam)

4 FD modules: “2 + 1 + 1 model”

2 Single-Phase FD modules

1 Dual-Phase FD modules

1 [As yet] uncovered “Opportunity” FD module

2023

A man in a dark suit and white shirt is sitting at a bar, leaning back with his hand on his face, looking towards the camera with a slight smile. The bar has a dark countertop with some glasses and bottles. In the background, other people are blurred, and the walls have a warm, orange-toned texture.

Let's get out of here!

μ BooNE

75 cm

Run 3493 Event 41075, October 23rd, 2015

X 5000

**X 10.000
million**

KEEP
CALM
ITS
FUN FACTS
TIME

DUNE is moving forward rapidly

2016:
Funding
approval in US

2017:
Start of
construction in
South Dakota

2018: Operation of
two large-scale
prototypes at CERN

2021:

Installation of
first 17,000 ton
far detector
module

2024:

Commissioning
/Operation of
first far detector

2026:

Start of beam
operation

DUNE CONSORTIA

DUNE aims to “do for neutrinos what the LHC did for the Higgs”

FERMIONES

BOSONES

NEUTRINOS

MIRACLE

NEUTRINO OSCILLATION

- **1061 scientists**
- **32 countries + CERN**
- **175 institutions (60% non-US)**

“The DUNE collaboration is growing at a rate of about 100 people per year,” Stefan Soldner-Rembold

NOT FUN FACTS ☹️

THANK YOU

GRACIAS