

FSU
WELCOME

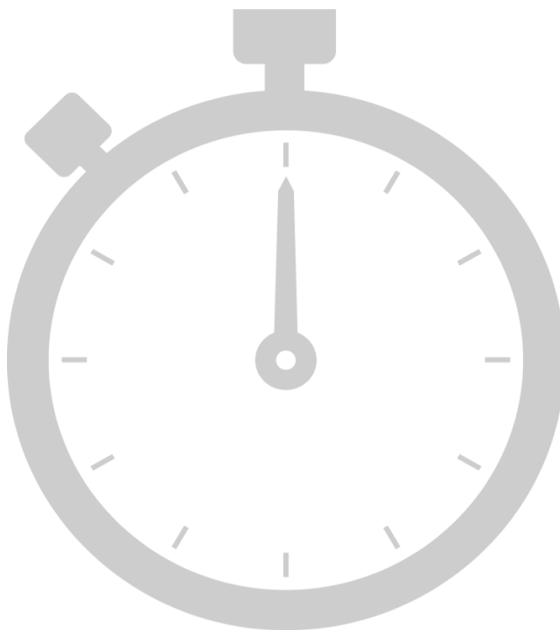
2024 Postdoctoral
Fall Symposium

The Office of Postdoctoral Affairs
The Graduate School | Florida State University

FSU

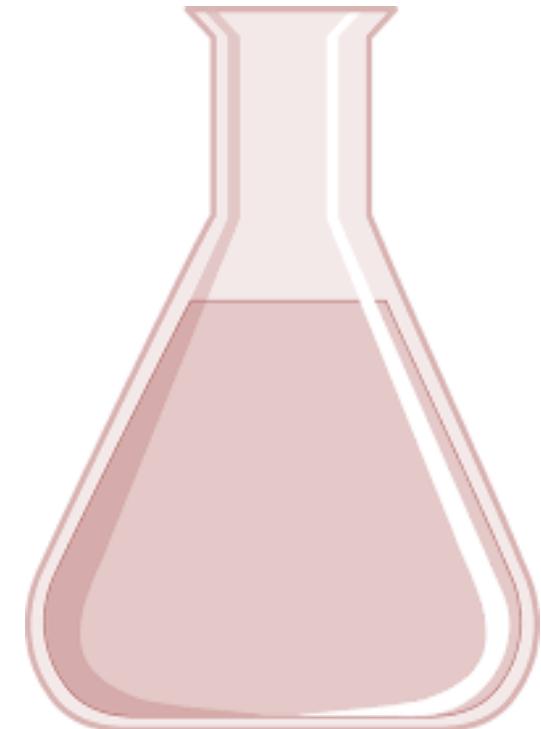
The Office of Postdoctoral Affairs

Presents:



FIVE MINUTE RESEARCH

POSTDOC COMPETITION



Florida State University



THANK YOU TEAM!

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Application Developer, Designer

Francis Ebuara
Graduate Assistant - Office of Postdoctoral Affairs

Jakub Hruby
Postdoctoral Scholar MagLab

Keith McCall
Acting Director Office of Graduate Awards & Fellowships

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Graduate Enrollment Specialist

Thais Pedrete
Postdoctoral Scholar in Chemistry
Past Senior Advisor

Joy Stein
Event Administrative Specialist

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College of Medicine Coordinator

GeoSet Studios!
Kyle Wilson



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VP for Research Office*

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Professor of Physics*

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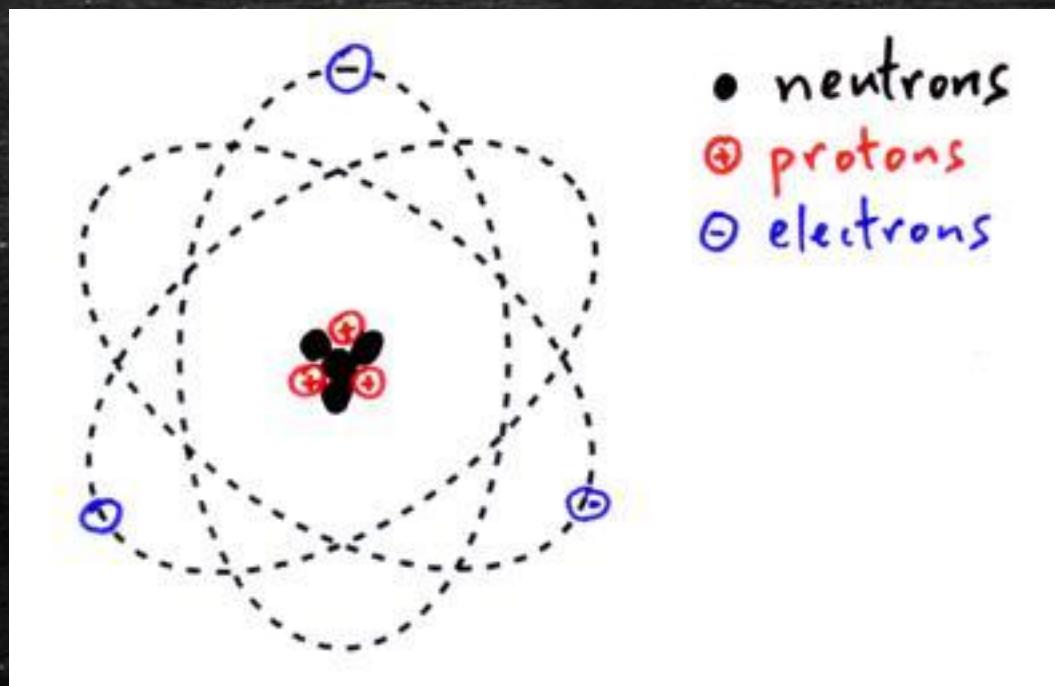


Herschel Chawdhry

Department of Physics

Particle Physics and the Quest for High Precision

The Office of Postdoctoral Affairs
The Graduate School | Florida State University



Quarks



Up



Down



Charm



Strange



Top



Beauty

Leptons



Electron



Neutrino



Muon



Neutrino Muon



Tau



Neutrino Tau

Bosons



Photon



Gluon



Z^0



W^-



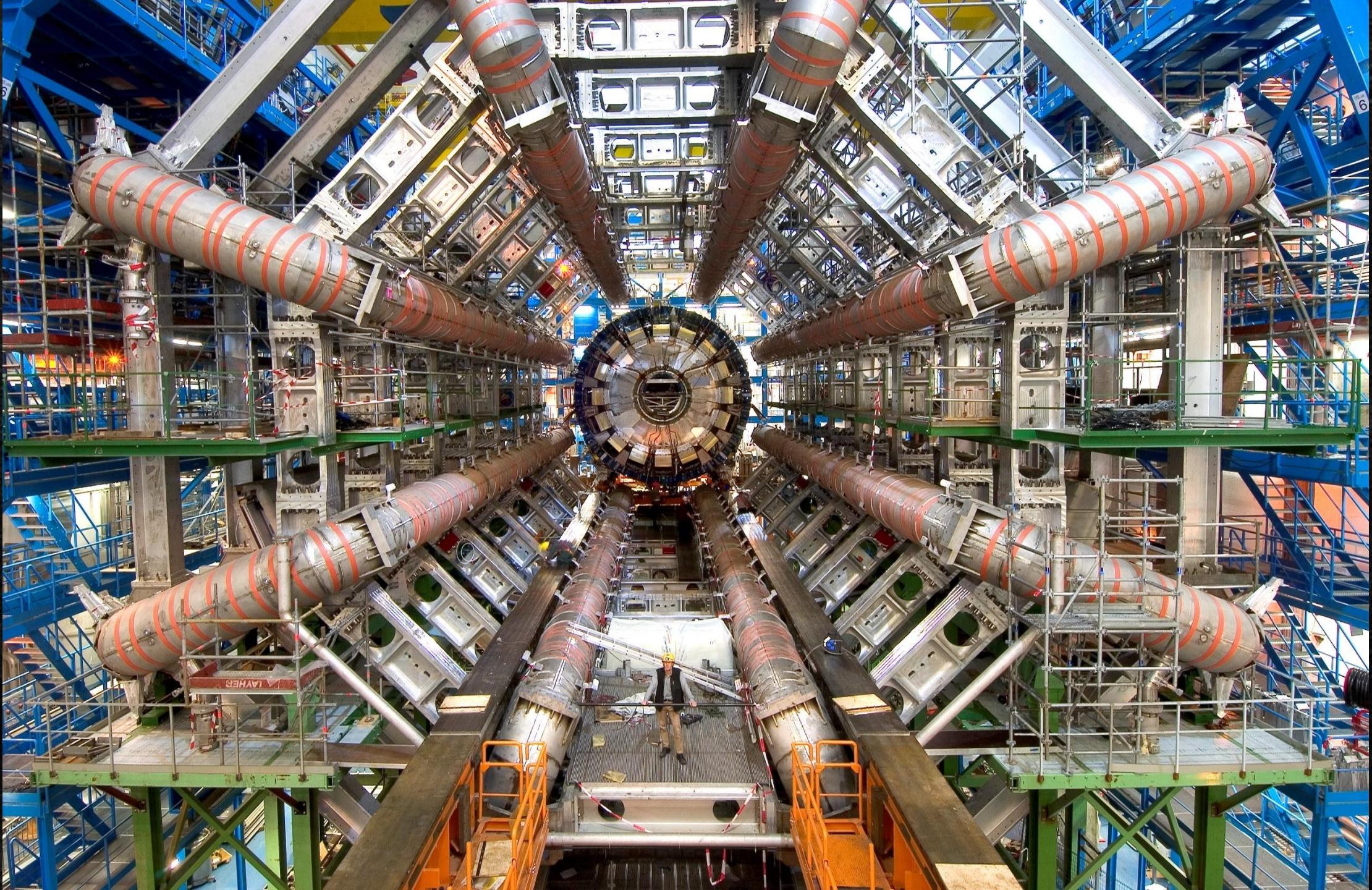
W^+



Higgs





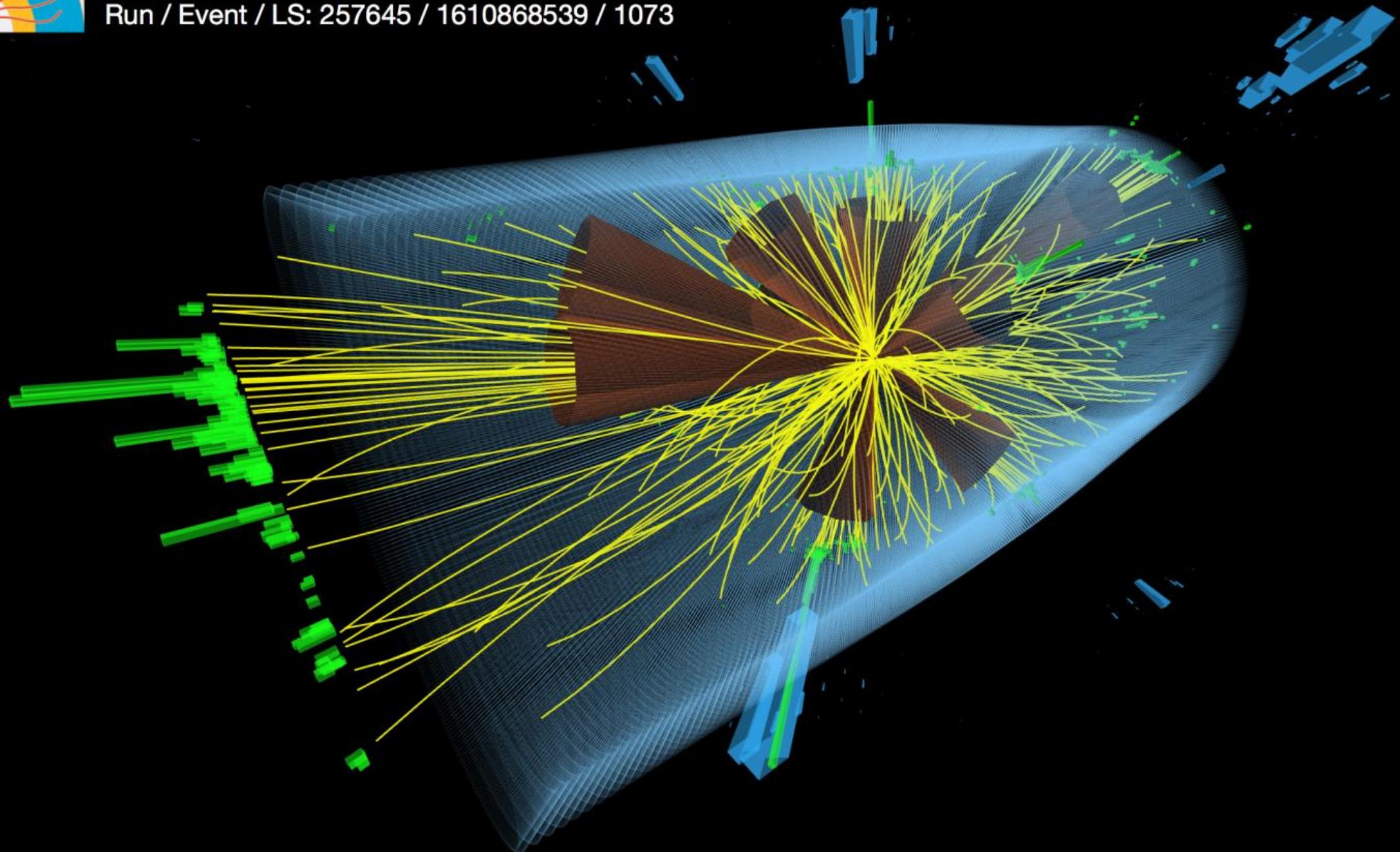




CMS Experiment at the LHC, CERN

Data recorded: 2015-Sep-28 06:09:43.129280 GMT

Run / Event / LS: 257645 / 1610868539 / 1073



$$\int d^d k_1 \int d^d k_2 \frac{(k_1 + p_1)^2 (k_2 - p_3 - p_4)^2}{(k_1 + p_1 + p_2)^2 (k_1 - k_2)^2 (k_2 + p_1)^2 (k_2 + p_1 + p_2)^2 (k_2 - p_3)^2}$$



[...] $a^2 c^5 + 960 a^3 c^5 - 1200 a^4 c^5 + 480 a^5 c^5 + 720 a^2 c^6 - 1920 a^3 c^6 + 1200 a^4 c^6 - 720 a^2 c^7 + 960 a^3 c^7 + 240 a^2 c^8 + 2 c^5 e + 20 a c^5 e - 200 a^2 c^5 e + 560 a^3 c^5 e - 640 a^4 c^5 e + 256 a^5 c^5 e - 10 c^6 e - 80 a c^6 e + 600 a^2 c^6 e - 1120 a^3 c^6 e + 640 a^4 c^6 e + 20 c^7 e + 120 a c^7 e - 600 a^2 c^7 e + 560 a^3 c^7 e - 20 c^8 e - 80 a c^8 e + 200 a^2 c^8 e + 10 c^9 e + 20 a c^9 e - 2 c^{10} e - c^5 e^2 + 10 a c^5 e^2 - 40 a^2 c^5 e^2 + 80 a^3 c^5 e^2 - 80 a^4 c^5 e^2 + 32 a^5 c^5 e^2 + 5 c^6 e^2 - 40 a c^6 e^2 + 120 a^2 c^6 e^2 - 160 a^3 c^6 e^2 + 80 a^4 c^6 e^2 - 10 c^7 e^2 + 60 a c^7 e^2 - 120 a^2 c^7 e^2 + 80 a^3 c^7 e^2 + 10 c^8 e^2 - 40 a c^8 e^2 + 40 a^2 c^8 e^2 - 5 c^9 e^2 + 10 a c^9 e^2 + c^{10} e^2) / (-2 e + 20 c e - 90 c^2 e + 240 c^3 e - 420 c^4 e + 504 c^5 e - 420 c^6 e + 240 c^7 e - 90 c^8 e + 20 c^9 e - 2 c^{10} e + e^2 - 10 c e^2 + 45 c^2 e^2 - 120 c^3 e^2 + 210 c^4 e^2 - 252 c^5 e^2 + 210 c^6 e^2$ [...]

Chawdhry, Lim, Mitov (2019) *Phys. Rev. D* 99 076011

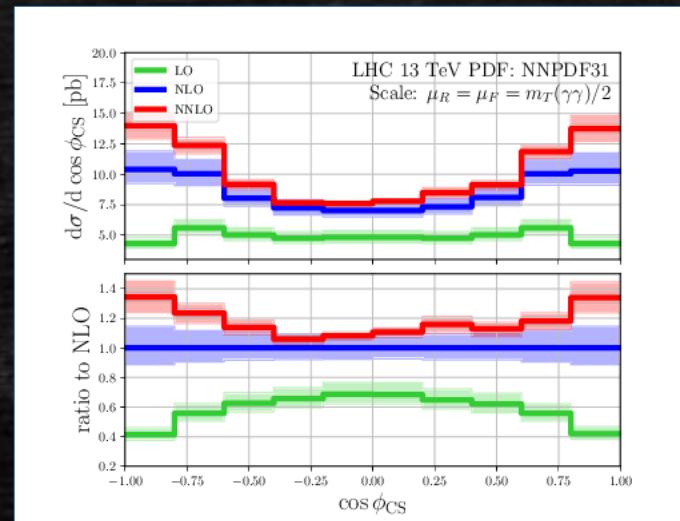
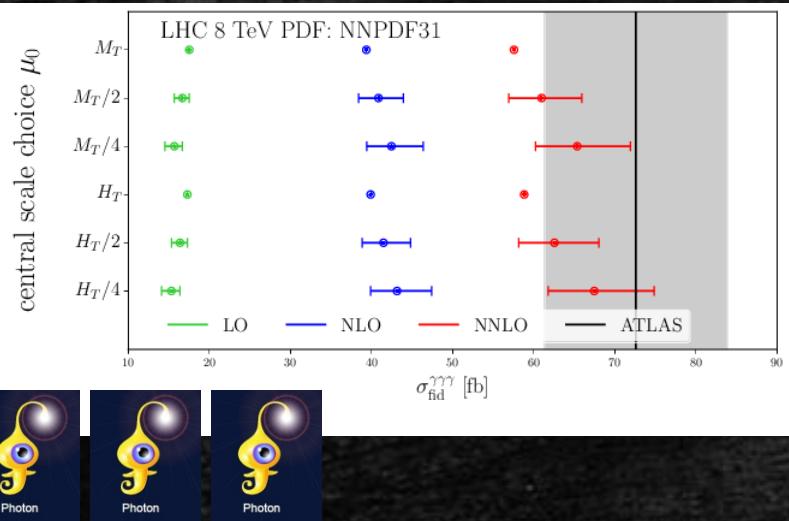


[...] $a^2 c^5 + 960 a^3 c^5 - 1200 a^4 c^5 + 480 a^5 c^5 + 720 a^2 c^6 - 1920 a^3 c^6 + 1200 a^4 c^6 - 720 a^2 c^7 + 960 a^3 c^7 + 240 a^2 c^8 + 2 c^5 e + 20 a c^5 e - 200 a^2 c^5 e + 560 a^3 c^5 e - 640 a^4 c^5 e + 256 a^5 c^5 e - 10 c^6 e - 80 a c^6 e + 600 a^2 c^6 e - 1120 a^3 c^6 e + 640 a^4 c^6 e + 20 c^7 e + 120 a c^7 e - 600 a^2 c^7 e + 560 a^3 c^7 e - 20 c^8 e - 80 a c^8 e + 200 a^2 c^8 e + 10 c^9 e + 20 a c^9 e - 2 c^{10} e - c^5 e^2 + 10 a c^5 e^2 - 40 a^2 c^5 e^2 + 80 a^3 c^5 e^2 - 80 a^4 c^5 e^2 + 32 a^5 c^5 e^2 + 5 c^6 e^2 - 40 a c^6 e^2 + 120 a^2 c^6 e^2 - 160 a^3 c^6 e^2 + 80 a^4 c^6 e^2 - 10 c^7 e^2 + 60 a c^7 e^2 - 120 a^2 c^7 e^2 + 80 a^3 c^7 e^2 + 10 c^8 e^2 - 40 a c^8 e^2 + 40 a^2 c^8 e^2 - 5 c^9 e^2 + 10 a c^9 e^2 + c^{10} e^2) / (-2 e + 20 c e - 90 c^2 e + 240 c^3 e - 420 c^4 e + 504 c^5 e - 420 c^6 e + 240 c^7 e - 90 c^8 e + 20 c^9 e - 2 c^{10} e + e^2 - 10 c e^2 + 45 c^2 e^2 - 120 c^3 e^2 + 210 c^4 e^2 - 252 c^5 e^2 + 210 c^6 e^2 [...]$

Chawdhry, Lim, Mitov (2019) *Phys. Rev. D* 99 076011

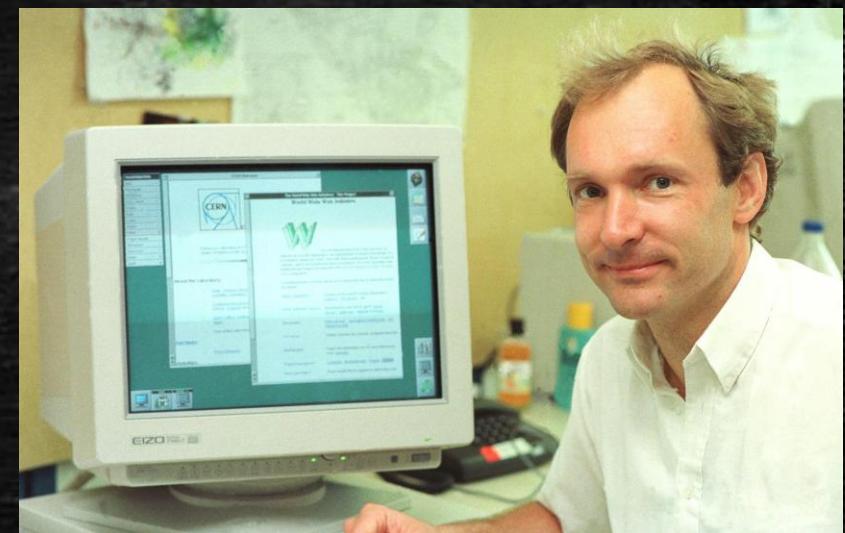
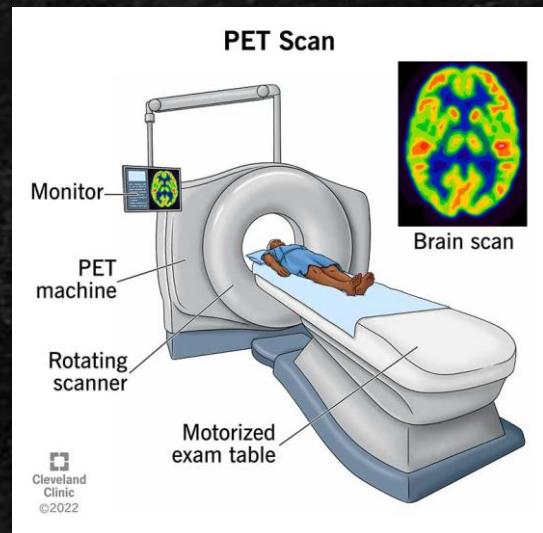
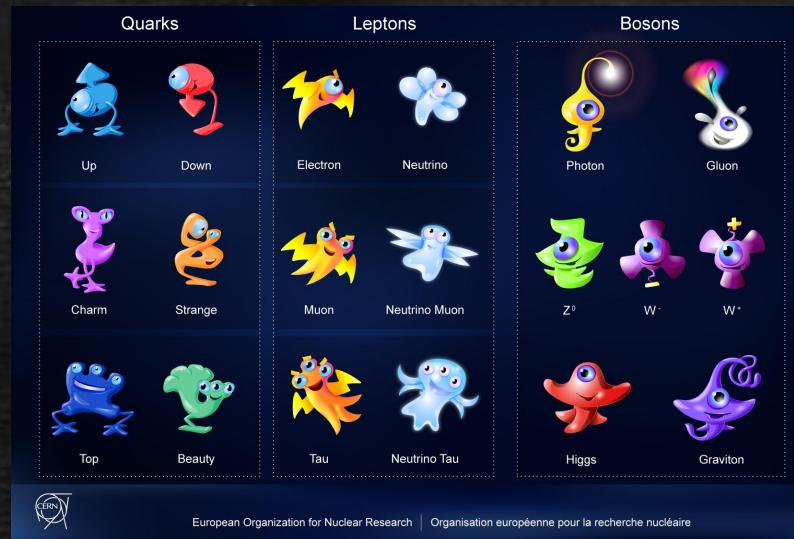


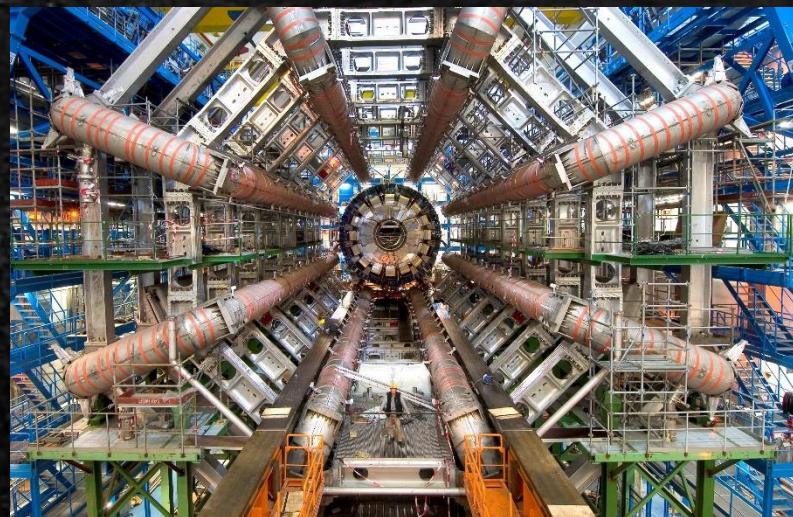
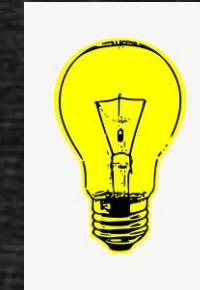
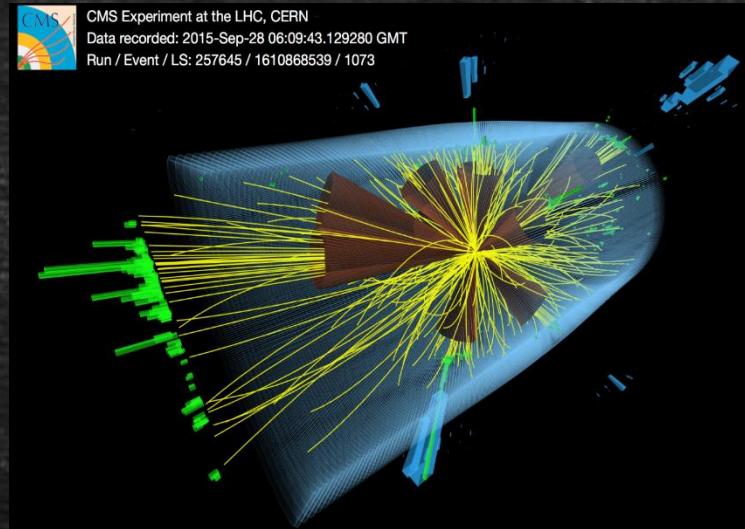
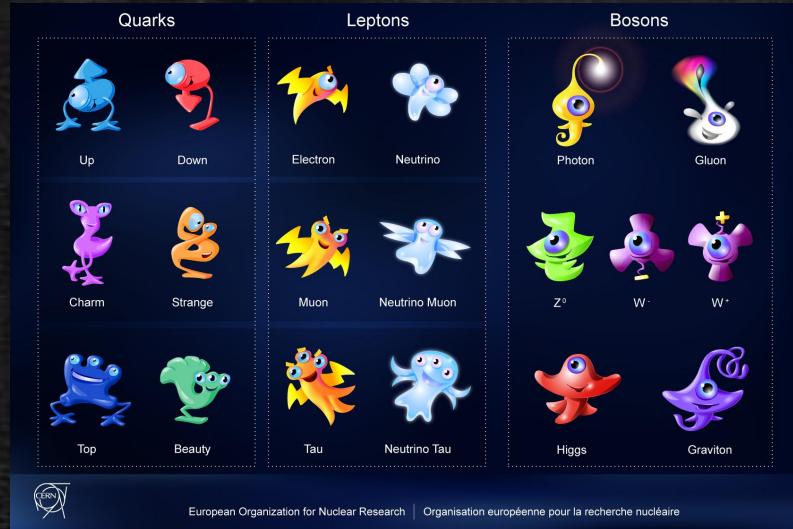
Chawdhry, Czakon, Mitov, Poncelet, *JHEP* 2002 (2020) 057



Chawdhry, Czakon, Mitov, Poncelet, *JHEP* 09 (2021) 093

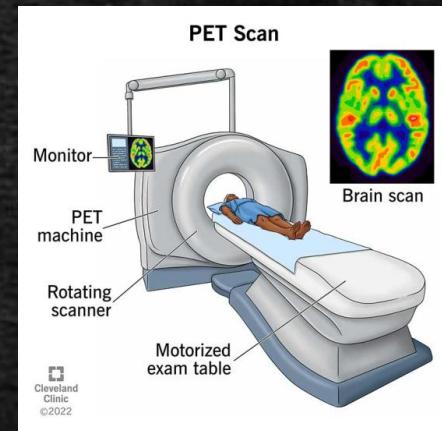
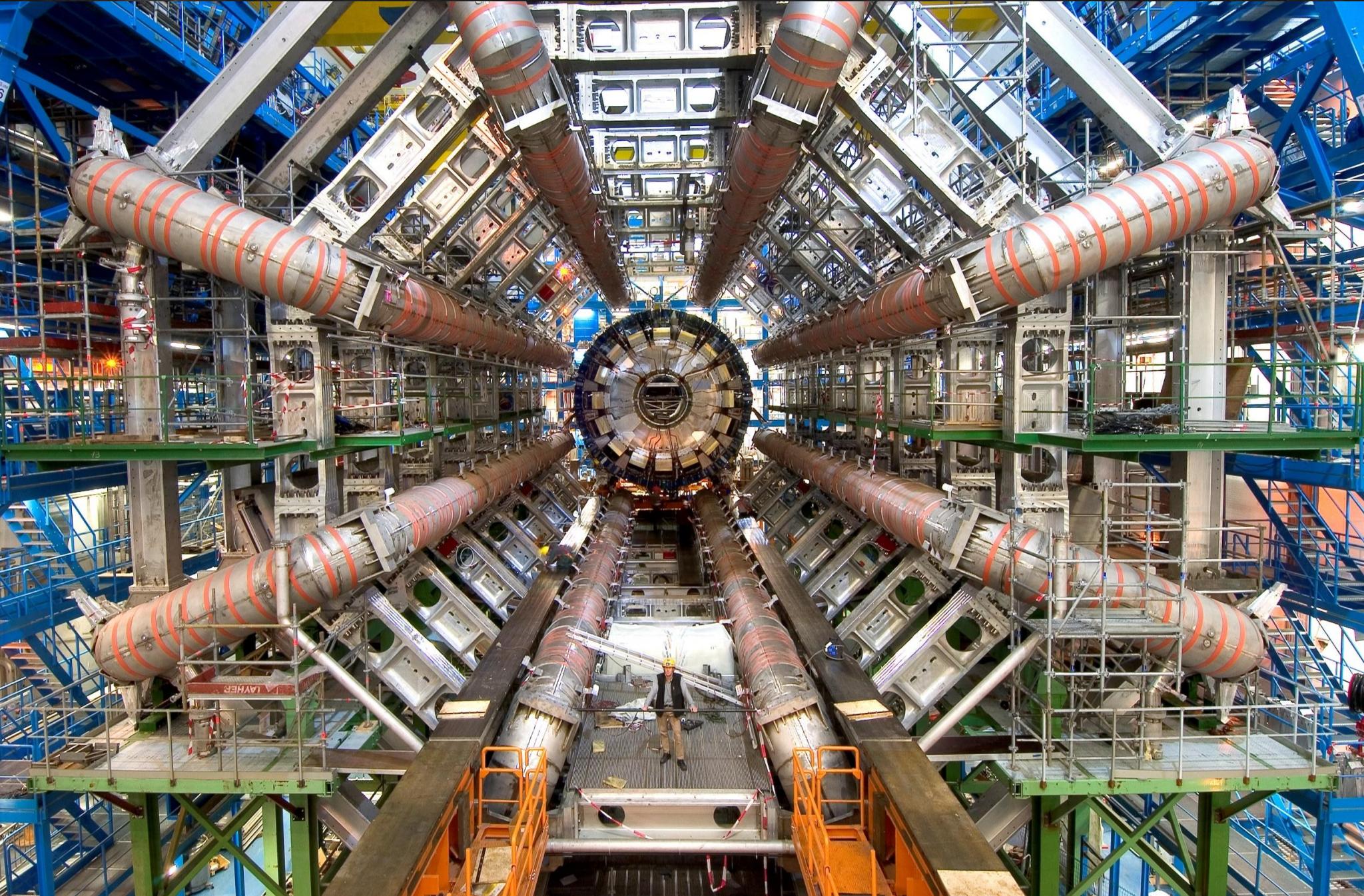






BACK-UP SLIDES



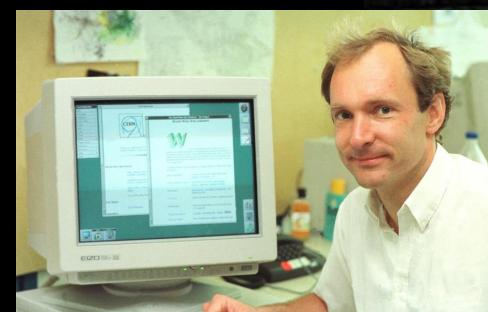
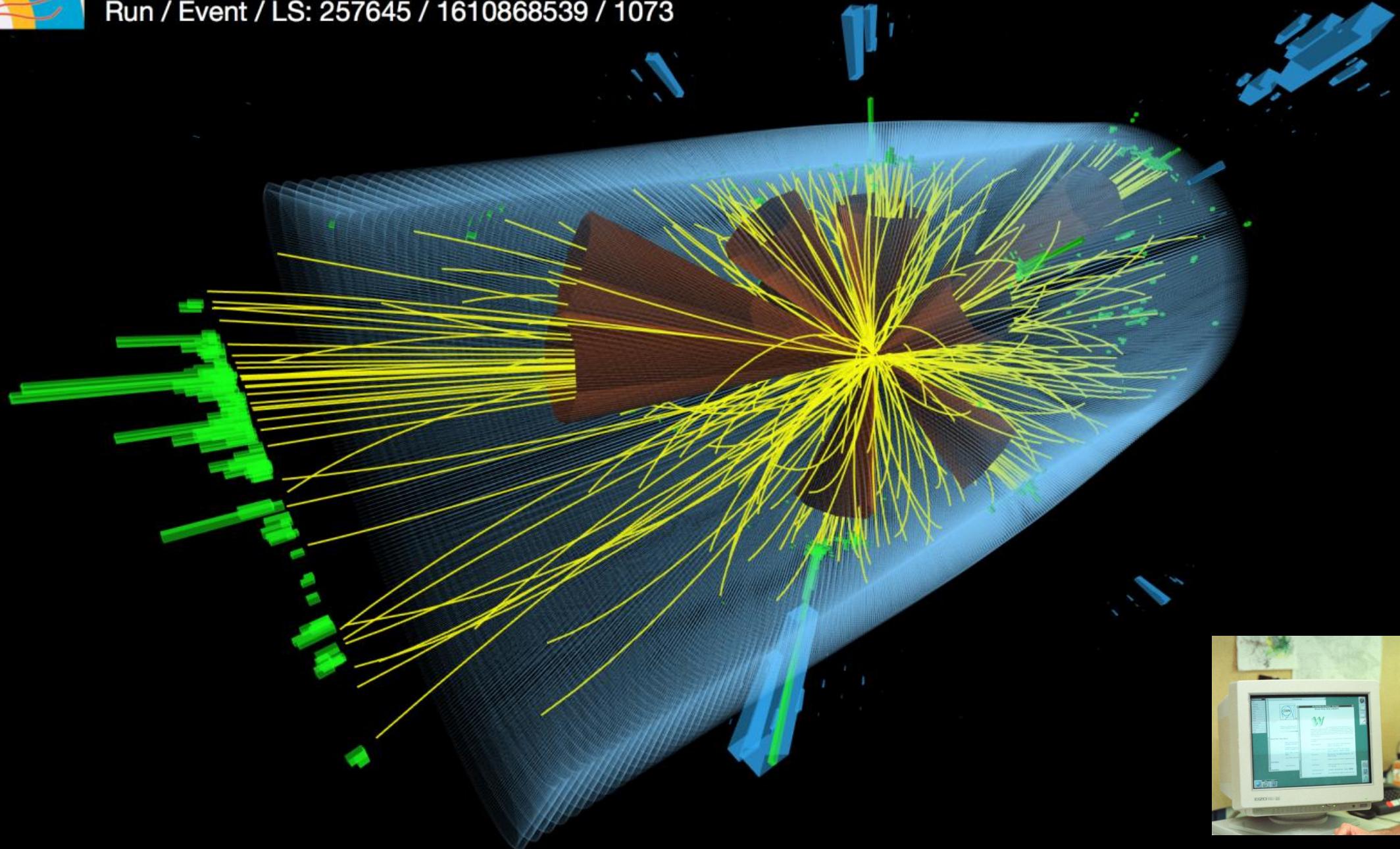


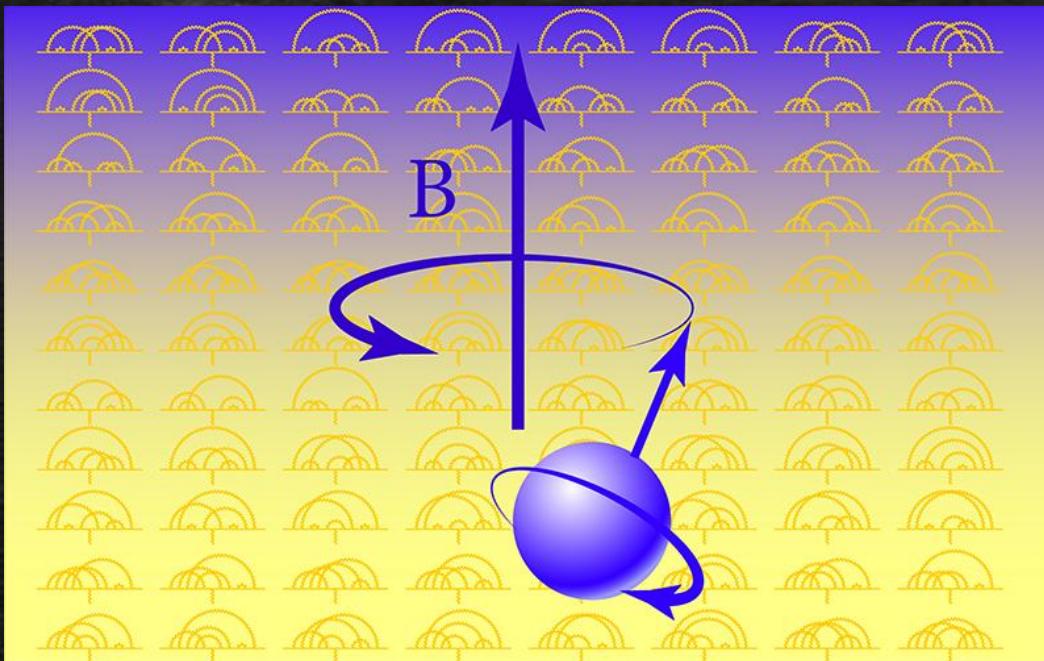


CMS Experiment at the LHC, CERN

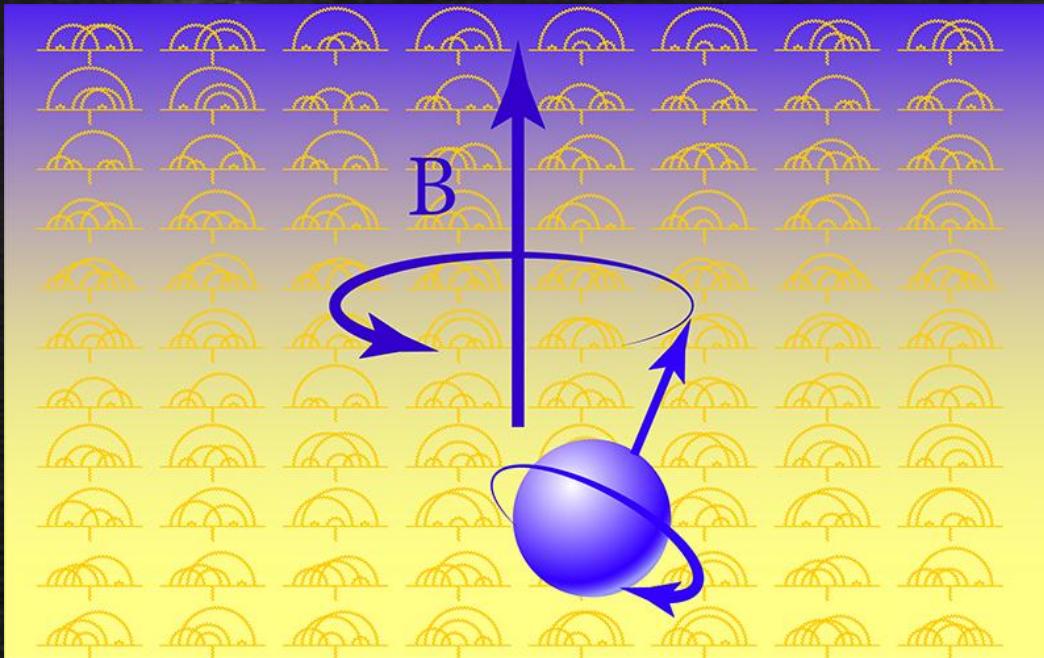
Data recorded: 2015-Sep-28 06:09:43.129280 GMT

Run / Event / LS: 257645 / 1610868539 / 1073





$$\mu_e = g \frac{e}{2m} S$$



$$\mu_e = g \frac{e}{2m} S$$

$$g_{experiment} = -2.0023193043618 \pm 0.0000000000005$$

$$g_{theory} = -2.0023193043641 \pm 0.0000000000014$$

Acknowledgements



Jing Wang
Dean and Professor
PhD, MPH, RN, FAAN



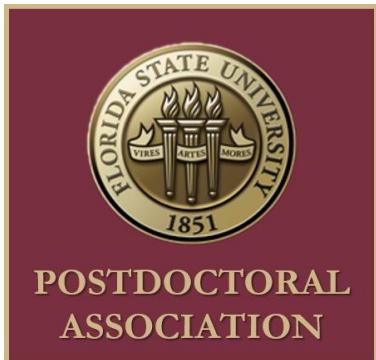
Hye Jin Park
Associate Professor
PhD, RN



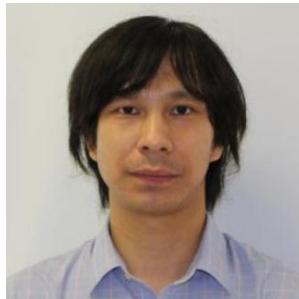
Hongyu Miao
Professor, Director of Brain
Science & Symptom
Management Center
PhD



Dan Song
Postdoctoral Scholar
RN, PhD



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Data Scientist



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AWARDS & RECEPTION

Please join us for refreshments
and award presentations

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PROGRAM END

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