



## Mid-term activities

### Friday, 23 July 2021

#### Friday Chats: Students talk competition (14:00 - 15:45)

time	[id] title	presenter
14:00	[1] Introduction	
14:10	[2] Testes do novo detetor de tempo de voo para experiência HADES	RODRIGUES, Guilherme
14:15	[4] Detecção de anomalias como teste de novos fenómenos de física nos dados da experiência ATLAS do CERN	REEVES, Ed FERREIRA, Rui
14:20	[5] Desenvolvimento de uma interface para analisar eventos do Observatório Pierre Auger, para uso em Masterclasses	VENTURA, Diogo CORREIA, Ricardo
14:25	[6] Optimização da muografia	DIAS, Inês PEREIRA, Rodrigo
14:30	[7] Heavy quarks as probes of the primordial plasma	PEDROSA, Cláudio LEGOINHA, Henrique
14:35	[8] Investigating the Flavor Anomalies	BOTAS, Marta JAFARI, Reza POZZI, Ruben
14:40	[9] Non invasive temperature monitoring device	SOUSA, Daniel ROLDÃO, Miguel MOLTER, Rafael
14:45	[11] Física Experimental de Partículas com o detector ATLAS	MACEDO, Helena SERRA, Inês
14:55	[13] Pesquisas de multi-mensageiros astrofísicos de altas energias	GOMES, João BAPTISTA, Margarida GODINHO, Miguel

#### Friday Chats: Social Time (16:00 - 17:00)

time	[id] title	presenter
16:00	[55] Gathertown	

# Friday, 30 July 2021

## Friday Chats: Students talk competition (14:00 - 15:15)

time	[id] title	presenter
14:05	[16] Detecção de anomalias como ferramenta para descoberta de nova física no Large Hadron Collider do CERN	PEIXOTO, Miguel
14:10	[18] Muões num balão: medidas do fluxo de muões até à estratosfera	ÁVILA, Afonso COELHO, Daniel SANTOS, Júlio
14:15	[19] À descoberta da natureza do neutrino: decaimento beta duplo sem neutrinos	ROXO, Carlos PAIS, Francisco
14:25	[22] Deep Neural Networks applications in experimental physics data analysis	MENDEIROS, Pedro
14:30	[23] Predição do efeito Migdal nas calibrações com neutrões em LZ	PIRES, Paulo
14:35	[24] Development of a portable system for scintillation detection	DIAS, Inês
14:40	[25] Detecção directa de matéria escura com a experiência LUX-ZEPLIN	GORGULHO, Diogo CASALINHO, Francisco MARTINS, Tiago
14:45	[26] Telescópio de muões / Chuveiros atmosféricos - Laboratório de Raios Cósmicos (LabRC)	SOUSA, Ana RODRIGUES, Francisco
14:50	[27] Assessing the class of functions learnt by Deep Learning models on low-level jet data formats	REASCOS, Leander
14:55	[59] Machine Learning Methods to measure the quantum numbers of the Higgs interaction to W bosons	TEIXEIRA, João
15:00	[60] Searching for new physics by colliding light in the CMS experiment at the LHC	BENQUERENÇA, Ana
15:05	[57] Boosted Higgs boson reconstruction in WH associated production	AL-HABSI, Al-Maha HANLON, Bettina

## Friday Chats: Social Time (15:30 - 16:30)

time	[id] title	presenter
15:30	[56] Skribbl	

# Friday, 6 August 2021

## Friday Chats: Students talk competition (14:00 - 15:15)

time	[id] title	presenter
14:05	[29] Development of a next-generation detector concept to detect astrophysical gamma-rays	CARAPUÇA, Matilde MENDES, Tatiana
14:10	[30] Understanding hadronization timescales using jets	SIMÕES, Diogo MADUREIRA, Nuno
14:15	[31] High-precision timing detectors for HL-LHC	MENG, Cristina
14:20	[32] Estudo de um microdosímetro de fibras cintilante em diferentes ambientes de radiação utilizando o código FLUKA	GAMBOA, Madalena
14:25	[33] Investigation of the muon puzzle at the Pierre Auger Observatory	NUNES, Raquel
14:30	[34] Pierre Auger vs. The Machine: towards validation of deep-learning based reconstruction of ultra-high energy cosmic rays with new data from the Pierre Auger Observatory	COSTA, Diogo
14:35	[35] Simulation of large scintillators for future HEP experiments using GEANT4	MENDONÇA, Diogo FERREIRA, Francisco
14:40	[36] Exploring jet quenching effects during QGP initialization	SANTOS, André CARDOSO, Daniela
14:45	[38] Investigating ANN and their use in the reconstruction of high energetic photons with the R3B calorimeter CALIFA	SOUSA, Tomás
14:50	[39] Thermal evaporation of thin layers of Copper for detector development	AZEVEDO, André
14:55	[40] Simulating the impact of proton therapy on amyloid protein structures using Geant4-DNA	ALMEIDA, Débora SIMÕES, Maria
15:00	[58] Using the HiggsML dataset to benchmark machine learning techniques	SAMPAIO, Pedro ALMADA, Sarah
15:05	[61] Análise de dados com a experiência AMS	SIMPLÍCIO, Guilherme

## Friday Chats: Social Time (15:30 - 16:30)

# Friday, 13 August 2021

## Friday Chats: Students talk competition (14:00 - 15:20)

time	[id] title	presenter
14:00	[41] Advanced Machine Learning for Exclusive Processes	PEIXOTO, Manuel
14:05	[42] Setting up a spectrometer to measure the absolute light yield of scintillating materials	REHAHN, Helene
14:10	[43] Radiation at Mars with SRAM-based monitors	BRANCO, Alexandre CANDEIAS, Leonor
14:15	[44] Calibração de detetores RPC para muografia	SILVA, Jorge
14:20	[45] Desenvolvimento de uma nova tecnologia para detetores de neutrões	GOMES, Gonçalo SERRA, Inês SANTOS, Mariana
14:25	[46] Search for dark matter in association with a new $Z'$ boson at the LHC	PINTO, Amélia NUNES, Madalena
14:30	[47] The analytic structure of quarks	OSTERDAHL, Heitor
14:35	[48] Novel jet algorithms to unveil the Quark-Gluon Plasma evolution	MONFORTE, Alexandre FERNANDES, João LUIS, Lénea
14:40	[49] Neutron data from the SNO+ neutrino detector	SOARES, André MIRANDA, Teresa
14:45	[50] Muografia: simulação da sensibilidade do telescópio de muões	ALEXANDRE, Isabel
14:50	[51] QCD effects in the muon anomalous magnetic moment	NUNES, André AMARO, Mário
14:55	[52] Muon efficiency performance with Tag and Probe using CMS Open Data	SILVA, Rodrigo
15:00	[53] Identifying Hidden Particles with Machine Learning at SHiP	BRANCO, André SANTOS, Henrique
15:05	[54] Sistema de alta tensão do Tilecal	AZUL, João
15:10	[62] De que são feitos os nucleões e os piões?	ALMEIDA, Guilherme TOMÉ, Pedro
15:15	[63] Hunting Forbush Decreases in the inner Solar System	FALORCA, Anselmo LOURENÇO, Bruno

## Friday Chats: Social Time (15:30 - 16:30)

time	[id] title	presenter
15:30	[65] Gartic Phone	