

**Workshop on photo-induced  
and diffractive phenomena at  
Sonora, Mexico**

**Report of Contributions**

Contribution ID: 1

Type: **not specified**

## Welcome and introduction

*Tuesday 29 November 2022 09:00 (20 minutes)*

**Presenter:** MURILLO QUIJADA, Javier Alberto (Universidad de Sonora (MX))

Contribution ID: 9

Type: **not specified**

## UFSDs and applications in medicine and cosmic ray analyses

*Tuesday 29 November 2022 09:20 (59 minutes)*

AGILE (Advanced enerGetic Ion eLectron tEle- scope) instrument is developed by the University of Kansas and NASA Goddard Space Flight Center to characterize solar energetic particles and anomalous cosmic rays. AGILE aims at identifying a large variety of ions (H-Fe) in a wide energy range (1-100 MeV/nucl) in real-time using, for the first time in space, pulse shape discrimination. AGILE will be able to observe in-situ the fluxes of a large variety of particles in a wide energy range to advance our knowledge of the fundamental processes in the Universe. A first flying prototype will be launched on board a CubeSat in 2023. This talk presents the objectives of AGILE instrument mission and the design of the first flying prototype of AGILE adapted from high energy physics technologies. We also present the method used for particle discrimination and energy measurement and compare simulations to the results obtained from instruments tests in laboratory using radiation sources.

**Presenter:** GAUTIER, Florian (Institut de Physique Nucleaire de Lyon (IPNL)-Universite Claude)

**Session Classification:** UFSDs and applications in medicine and cosmic ray analyses

Contribution ID: **10**

Type: **not specified**

## **New variables to study Mueller Navelet jets**

*Wednesday 30 November 2022 09:00 (30 minutes)*

We present our Monte Carlo analysis of newly proposed observables in LL BFKL and NLO QCD. Their unexpected agreement at LHC energies sparks interest in future measurements.

**Presenter:** KAMPSHOFF, Mats (The University of Kansas (US))

**Session Classification:** New variables to study Mueller Navelet jets

Contribution ID: 11

Type: **not specified**

## **top quark production in heavy ion collisions**

*Tuesday 29 November 2022 10:20 (30 minutes)*

**Presenter:** Dr KRINTIRAS, Georgios (The University of Kansas (US))

**Session Classification:** Top quark production in heavy ion collisions

Contribution ID: 12

Type: **not specified**

## Jet gap jets at NLO

*Tuesday 29 November 2022 11:10 (30 minutes)*

**Presenter:** DEGANUTTI, Federico

**Session Classification:** Jet gap jets at NLO

Contribution ID: 13

Type: **not specified**

## **New scaling in elastic data**

*Tuesday 29 November 2022 11:40 (30 minutes)*

**Presenter:** BALDENEGRO BARRERA, Cristian (Laboratoire Leprince-Ringuet)

**Session Classification:** New scaling in elastic data

Contribution ID: 14

Type: **not specified**

## **Probing diffractive phenomena CT-CMS PPS spectrometer**

*Tuesday 29 November 2022 12:10 (30 minutes)*

**Presenter:** ROYON, Christophe (The University of Kansas (US))

**Session Classification:** Probing diffractive phenomena CT-CMS PPS spectrometer



Contribution ID: 15

Type: **not specified**

## **$t\bar{t}$ and $\psi$ photoproduction in ultraperipheral pPb events**

*Tuesday 29 November 2022 14:40 (30 minutes)*

**Presenter:** ALCERRO ALCERRO, Luis (The University of Kansas (US))

**Session Classification:**  $t\bar{t}$  and  $\psi$  photoproduction in ultraperipheral pPb events

Contribution ID: 16

Type: **not specified**

## **top quark photoproduction in pp collisions**

*Tuesday 29 November 2022 15:40 (30 minutes)*

**Presenter:** COTA RODRIGUEZ, Antonio (Universidad de Sonora (MX))

**Session Classification:** top quark photoproduction in pp collisions

Contribution ID: 17

Type: **not specified**

## **Study of gamma gamma ZZ anomalous couplings**

*Tuesday 29 November 2022 16:30 (30 minutes)*

**Presenter:** ARTEAGA ESCATEL, Saray (The University of Kansas (US))

**Session Classification:** Study of gamma gamma ZZ anomalous couplings

Contribution ID: **18**

Type: **not specified**

## **Jet gap jet results and interpretation**

*Tuesday 29 November 2022 17:00 (30 minutes)*

**Presenter:** ROYON, Christophe (The University of Kansas (US))

**Session Classification:** Jet gap jet results and interpretation

Contribution ID: 19

Type: **not specified**

## **Correlation in small systems: Correlation in small systems**

*Tuesday 29 November 2022 17:30 (30 minutes)*

**Presenter:** LEON COELLO, Moises David (Universidad de Sonora (MX))

**Session Classification:** Correlation in small systems

Contribution ID: 20

Type: **not specified**

# Non Perturbative Quantum Chromodynamics and Hadron Physics

*Wednesday 30 November 2022 09:30 (30 minutes)*

**Presenter:** Dr COBOS-MARTÍNEZ, Javier (Cinvestav-IPN)

**Session Classification:** Non Perturbative Quantum Chromodynamics and Hadron Physics

Contribution ID: 21

Type: **not specified**

## **Experimental and Theory colaboracions / Sonora / Kansas**

*Wednesday 30 November 2022 10:30 (30 minutes)*

**Presenter:** BALDENEGRO BARRERA, Cristian (Laboratoire Leprince-Ringuet)

**Session Classification:** Experimental and Theory colaboracions / Sonora / Kansas