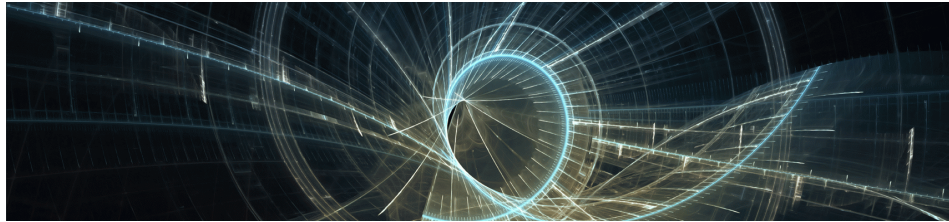


Dark Matter 2018: From the Smallest to the Largest Scales



Report of Contributions

Contribution ID: **36**

Type: **not specified**

Welcome: Academic authorities

Monday, June 25, 2018 3:00 PM (15 minutes)

Session Classification: Start Session

Contribution ID: 37

Type: **Cosmology**

Dark Matter from cosmic dawn

Monday, June 25, 2018 3:15 PM (50 minutes)

Presenter: MUNOZ, Julian

Session Classification: Start Session

Contribution ID: 38

Type: **Cosmology**

Suppression of Early Galaxy Formation unveiled in the Hubble Frontier Fields as predicted by Wave Dark Matter

Monday, June 25, 2018 4:05 PM (25 minutes)

Presenter: LEUNG, Enoch

Session Classification: Start Session

Contribution ID: 39

Type: **not specified**

The CDM challenges of the Milky Way satellite orbits

Monday, June 25, 2018 5:00 PM (25 minutes)

Presenter: CAUTUN, Marius

Session Classification: Afternoon Session

Contribution ID: 40

Type: **Cosmology**

A limit on the warm Dark Matter particle mass from the edges redshifted 21 CM absorption line

Monday, June 25, 2018 5:25 PM (25 minutes)

Presenter: SAFARZADEH, Mohammadtaher

Session Classification: Afternoon Session

Contribution ID: 41

Type: **Cosmology**

Probing Dark Matter

Tuesday, June 26, 2018 9:15 AM (50 minutes)

Presenter: SILK , Joe

Session Classification: Morning Session

Contribution ID: 42

Type: **not specified**

"Testing self-interacting dark matter models with gravitational lensing"

Tuesday, June 26, 2018 10:05 AM (25 minutes)

Presenter: VEGA FERRERO, Jesús

Session Classification: Morning Session

Contribution ID: 43

Type: **not specified**

Constraining Secluded Dark Matter with White Dwarfs measurements

Tuesday, June 26, 2018 10:30 AM (25 minutes)

Presenter: CERMEÑO GAVILÁN, Marina

Session Classification: Morning Session

Contribution ID: 44

Type: **not specified**

What can galaxy dynamics tell us about dark matter?

Tuesday, June 26, 2018 11:20 AM (50 minutes)

Presenter: LELLI, Federico

Session Classification: Morning Session

Contribution ID: 45

Type: **not specified**

Why the massive LIGO events can not be Primordial Black Holes

Tuesday, June 26, 2018 12:10 PM (25 minutes)

Presenter: DIEGO RODRIGUEZ, Jose Maria

Session Classification: Morning Session

Contribution ID: 46

Type: **not specified**

Polarized spectral distortion of CMB from ALPs

Tuesday, June 26, 2018 12:35 PM (25 minutes)

Presenter: MUKHERJEE, Suvodip

Session Classification: Morning Session

Contribution ID: 47

Type: **not specified**

Weak lensing constraints on splashback in galaxy clusters

Tuesday, June 26, 2018 1:00 PM (25 minutes)

Presenter: CONTIGIANI, Omar

Session Classification: Morning Session

Contribution ID: 48

Type: **Indirect Searches**

Indirect Searches: Overview

Tuesday, June 26, 2018 3:00 PM (50 minutes)

Presenter: MURGIA, Simona

Session Classification: Afternoon Session

Contribution ID: 49

Type: **Theory**

Accurate measurements of the dark-matter annihilation J-factor and decay D-factor profiles of dwarf spheroidal galaxies

Tuesday, June 26, 2018 3:50 PM (25 minutes)

Presenter: PASCALE, Raffaele

Session Classification: Afternoon Session

Contribution ID: 50

Type: **not specified**

Resummation for indirect detection of heavy dark matter

Tuesday, June 26, 2018 4:15 PM (25 minutes)

Presenter: VOLLMANN, Martin

Session Classification: Afternoon Session

Contribution ID: 51

Type: **not specified**

Stellar Wakes from Dark Matter Subhalos

Tuesday, June 26, 2018 5:05 PM (25 minutes)

Presenter: BUSCHMANN, Malte

Session Classification: Afternoon Session

Contribution ID: 52

Type: **not specified**

Round Table

Tuesday, June 26, 2018 5:30 PM (1h 15m)

Session Classification: Afternoon Session

Contribution ID: 53

Type: **Direct Search**

High Mass DM Searches with Nobel Liquids

Wednesday, June 27, 2018 9:15 AM (50 minutes)

Presenter: HASTEROK, Constanze

Session Classification: Morning Session

Contribution ID: 54

Type: **Direct Search**

New results from the XENON1T experiment

Wednesday, June 27, 2018 10:05 AM (25 minutes)

Presenter: CICHON, Dominick

Session Classification: Morning Session

Contribution ID: 55

Type: **Direct Search**

Darkside latest results and future prospects

Wednesday, June 27, 2018 10:30 AM (25 minutes)

Presenter: PESUDO, Vicente

Session Classification: Morning Session

Contribution ID: 56

Type: **Direct Search**

Hopes and Prospects (for Direct DM Searches)

Wednesday, June 27, 2018 11:20 AM (50 minutes)

Presenter: CERDENO , David

Session Classification: Morning Session

Contribution ID: 57

Type: **Direct Search**

NaI(Tl) dark matter direct detection experiments: status and prospects

Wednesday, June 27, 2018 12:10 PM (25 minutes)

Presenter: SARSA, María Luisa

Session Classification: Morning Session

Contribution ID: 58

Type: **Direct Search**

Cosmogenic production of tritium in dark matter detectors

Wednesday, June 27, 2018 12:35 PM (25 minutes)

Presenter: CEBRIAN GUAJARDO, Susana

Session Classification: Morning Session

Contribution ID: 59

Type: **Direct Search**

Measuring the ^{39}Ar depletion factor with DART

Wednesday, June 27, 2018 1:00 PM (25 minutes)

Presenter: SÁNCHEZ, Edgar

Session Classification: Morning Session

Contribution ID: **60**

Type: **Accelerator Searches**

Accelerating Dark Matter

Wednesday, June 27, 2018 3:00 PM (50 minutes)

Presenter: NELSON, Tim

Session Classification: Afternoon Session

Contribution ID: 61

Type: **Theory**

Extended Higgs Portal and the Galactic Center Excess

Wednesday, June 27, 2018 3:50 PM (25 minutes)

Presenter: QUILIS, Javier

Session Classification: Afternoon Session

Contribution ID: 62

Type: **Theory**

Probing Inelastic Dark Matter with Neutron Stars

Wednesday, June 27, 2018 4:15 PM (25 minutes)

Presenter: ROBLES, Sandra

Session Classification: Afternoon Session

Contribution ID: 63

Type: **Cosmology**

Milky Way Dark Matter - From Astrophysical Observations to Particle Physics Experiments

Presenters: HERMS, Johannes; MAUMDAR, Subhabrata

Session Classification: Afternoon Session

Contribution ID: 64

Type: **Theory**

Low Mass DM Direct Searches

Thursday, June 28, 2018 9:15 AM (50 minutes)

Presenter: KILMINSTER, Ben

Session Classification: Morning Session

Contribution ID: 65

Type: **Theory**

Where is SUSY Dark Matter

Thursday, June 28, 2018 10:05 AM (25 minutes)

Presenter: HEINEMEYER, Sven

Session Classification: Morning Session

Contribution ID: **66**

Type: **not specified**

Higgs portal dark matter

Thursday, June 28, 2018 10:30 AM (25 minutes)

Presenter: LEBEDEV, Oleg

Session Classification: Morning Session

Contribution ID: 67

Type: **Accelerator Searches**

Dark Matter at the LHC: Overview

Thursday, June 28, 2018 11:20 AM (50 minutes)

Presenter: MALIK , Sara Alam

Session Classification: Morning Session

Contribution ID: **68**

Type: **not specified**

Neutrino Experiments and Dark Matter

Friday, June 29, 2018 9:15 AM (50 minutes)

Presenter: IBARRA, Alejandro

Session Classification: Morning Session

Contribution ID: 69

Type: **Neutrino Physics**

Sterile neutrino relic abundance from self-interactions

Friday, June 29, 2018 10:05 AM (25 minutes)

Presenter: HERMS, Johannes

Session Classification: Morning Session

Contribution ID: 70

Type: **Direct Search**

Status of the TREX-DM experiment at the Canfranc Underground Laboratory

Friday, June 29, 2018 10:30 AM (25 minutes)

Presenter: CEBRIAN GUAJARDO, Susana

Session Classification: Morning Session

Contribution ID: 71

Type: **not specified**

The SHiP experiment at CERN

Friday, June 29, 2018 11:20 AM (25 minutes)

Presenter: LANFRANCHI, Gaia

Session Classification: Morning Session

Contribution ID: 72

Type: **Theory**

Summary Talk

Friday, June 29, 2018 11:45 AM (50 minutes)

Presenter: TAIT, Tim

Session Classification: Morning Session

Contribution ID: 73

Type: **Accelerator Searches**

Dark Matter searches with the ATLAS Detector

Thursday, June 28, 2018 12:10 PM (25 minutes)

Presenter: ROEHRIG, Rainer

Session Classification: Morning Session

Contribution ID: 74

Type: **Accelerator Searches**

Search for dark matter in association with a Higgs boson in CMS

Thursday, June 28, 2018 12:35 PM (25 minutes)

Presenter: TREVISANI, Nicolò

Session Classification: Morning Session

Contribution ID: 75

Type: **Accelerator Searches**

The Higgs boson as a tool to search for Dark Matter with the ATLAS Detector

Thursday, June 28, 2018 1:00 PM (25 minutes)

Presenter: YIGITBASI, Efe

Session Classification: Morning Session

Contribution ID: 76

Type: **not specified**

Review of the Axions Searches: Theory and projects

Thursday, June 28, 2018 3:00 PM (50 minutes)

Presenter: PEÑA-GARAY, Carlos (Laboratorio Subterraneo de Canfranc)

Session Classification: Afternoon Session

Contribution ID: 77

Type: **Accelerator Searches**

Searches for dark-sector particles at LHCb

Thursday, June 28, 2018 3:50 PM (25 minutes)

Presenter: BORSATO, Martino

Session Classification: Afternoon Session

Contribution ID: 78

Type: **Accelerator Searches**

Searches for dark matter in association with a top pair in CMS

Thursday, June 28, 2018 4:15 PM (25 minutes)

Presenter: PRIEELS, Cedric Gerald

Session Classification: Afternoon Session

Contribution ID: 79

Type: **Accelerator Searches**

Searches for Dark Matter mediators with the ATLAS Detector

Thursday, June 28, 2018 5:05 PM (25 minutes)

Presenter: BEHR, Katharina

Session Classification: Afternoon Session

Contribution ID: **80**

Type: **Cosmology**

Milky Way Dark Matter - From Astrophysical Observations to Particle Physics Experiments

Monday, June 25, 2018 5:50 PM (25 minutes)

Presenter: MAUMDAR, Subhabrata

Session Classification: Afternoon Session

Contribution ID: **81**Type: **not specified**

Radiografiando el Universo a través de la materia oscura.

Wednesday, June 27, 2018 7:30 PM (1h 30m)

Título: Radiografiando el Universo a través de la materia oscura.

Resumen: La naturaleza de la materia oscura es sin duda uno de los mayores misterios de la ciencia moderna. Sabemos cuanto hay y sabemos donde esta pero no sabemos lo que es. Experimentos en la Tierra no han logrado aún detectar ninguna interacción entre las posibles partículas de materia oscura y la materia normal. Por el contrario, observaciones astronómicas indican claramente que la materia oscura es el tipo de materia más abundante del cosmos. Para reconciliar ambos tipos de experimentos la materia oscura ha de estar formada por partículas increíblemente pequeñas que pueden atravesar la Tierra sin apenas interactuar con nada o han de ser objetos masivos y oscuros pero increíblemente raros con lo cual ninguno de ellos ha podido interactuar con la Tierra, por ejemplo agujeros negros primordiales. Imágenes de objetos distantes cuya luz ha de atravesar regiones donde la materia oscura es abundante pueden darnos una radiografía de la distribución de materia oscura. En esta charla hablaré de observaciones astronómicas que se están realizando en la actualidad para intentar desvelar la auténtica naturaleza de la misteriosa materia oscura.

BIO: Jose M. Diego es licenciado en Físicas por la Universidad de Cantabria (UC, 1996). En 2000 obtuvo el Título de Dr. por la UC.

Entre 2001 y 2003 trabajó como postdoc en la Universidad de Oxford (UK) con un contrato Marie Curie. En 2003-2004 continuó su trabajo postdoctoral en UPenn (Philadelphia, USA), en 2004-2005 trabajó como postdoc en el MIT (Boston, USA). A finales de 2005 volvió a España como Contrado Ramón y Cajal donde trabajó en el Instituto de Física de Cantabria. Desde 2009 es Científico Titular del Consejo Superior de Investigaciones Científicas y trabaja en el Instituto de Física de Cantabria.

Presenter: DIEGO, Jose M.

Session Classification: Afternoon Session