

## **Session Program**

**Sep 3 - 7, 2018**



## **Invisibles18 Workshop**

### **Dark Matter**

Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI)  
Engesserstraße 5, 76131 Karlsruhe

# Thu, September 6

9:00 AM

## Dark Matter

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Marta Losada

09:00 – 09:30

### WIMP Phenomenology

Speaker

Riccardo Catena

09:30 – 10:00

### DM and Light Mediators

Speaker

Felix Kahlhöfer

10:00 – 10:30

### Dark Matter Direct Detection Results and Outlook

Speaker

Fei Gao

10:30 AM

11:00 AM

## Dark Matter

Session |

Location: Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

Convener: Chair: Laura Covi

11:00 – 11:30

### New Physics and 21 cm Observations

Speaker

Josef Pradler

11:30 – 12:00

### PhD forum 6

Subcontributions

#### Surrogate Models for Direct Dark Matter Detection (Andrew Cheek)

Speaker

Andrew Cheek

#### Dark Matter Model or Mass: Benchmark-Free Forecasting for Future Detectors (Thomas Edwards)

Speaker

Thomas Edwards

#### Singlet-Triplet Higgs portal Dark Matter (Anastasiia Filimonova)

Speaker

Anastasiia Filimonova

#### Singlet-Triplet Fermionic Dark Matter and LHC Phenomenology (Sarif Khan)

Speaker

Sarif Khan

**General Bounds on Hidden CFTs (Kevin Max)**

**Speaker**  
Kevin Max

12:00 - 12:30

**Dark Matter Indirect Detection - Prospects for WIMPs**

**Speaker**  
Pearl Sandick

12:30 PM

2:00 PM

**Dark Matter****Session** |

**Location:** Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

**Convener:** Chair: Kathrin Valerius

14:00 - 14:30

**News on keV Sterile Neutrino DM**

**Speaker**  
Fedor Bezrukov

14:30 - 15:00

**PhD forum 7****Subcontributions****Constraining Dark Matter-Photon Scattering with CMB Observations (Julia Stadler)**

**Speaker**  
Julia Stadler

**Impact of Beyond the Standard Model Physics in the Detection of the Cosmic Neutrino Background (Martin Arteaga Tupia)**

**Speaker**  
Martin Arteaga Tupia

**The Foreground Effect on the J-factor Estimation of Dwarf Spheroidal Galaxies (Shunichi Horigome)**

**Speaker**  
Shunichi Horigome

**Thermalization of Inelastic Dark Matter in the Sun (Stefan Clementz)**

**Speaker**  
Stefan Clementz

**Freezing Dark Matter Through Heavy Spin-1 and Spin-2 Portals (Maira Dutra)**

**Speaker**  
Maira Dutra

15:00 - 15:30

**Searching for the Decay of Axion Dark Matter**

**Speaker**  
Samuel Witte

3:30 PM

4:00 PM

## Dark Matter

Session |

**Location:** Karlsruhe Institute of Technology (KIT), Nachrichtentechnik - Hörsaal (NTI), Engesserstraße 5, 76131 Karlsruhe |

**Convener:** Chair: Shaaban Kahlil

**16:00 - 16:30** **Review of FIMP Dark Matter**

**Speaker**

Nicolas Bernal

**16:30 - 17:00** **Bimetric Gravity and Dark Matter**

**Speaker**

Angnis Schmidt-May

**17:00 - 17:30** **Dark Matter/Cosmology discussion**

**Speaker**

Malcolm Fairbairn

5:30 PM