

Session Program

21-22 Jul 2022

**EOSC-Future ESCAPE Science Projects
progress meeting**

Presentations from TSP members

CERN, 60/6-015 - Room Georges Charpak (Room F)

Thursday 21 July

10:05

Presentations from TSP members: VRE presentations

Session | **Location:** CERN, 60/6-015 - Room Georges Charpak (Room F) | **Conveners:** Elena Gazzarrini, Enrique GARCIA GARCIA

10:05-10:25 **VRE and Data Lake as a Service: introduction, status and progress**

Speakers

Alba Vendrell Moya, Elena Gazzarrini, Enrique GARCIA GARCIA

10:35

10:45

Presentations from TSP members: Dark Matter Science Project

Session | **Location:** CERN, 60/6-015 - Room Georges Charpak (Room F) | **Conveners:** Lukas Alexander Heinrich, Francesca Calore, Caterina Doglioni

10:45-11:00 **Brief summary of Dark Matter Science Project**

Speakers

Caterina Doglioni, Francesca Calore, Lukas Alexander Heinrich

11:00-11:25 **KM3NeT (Dark Matter) - will be presented in the afternoon**

Speakers

Mikhail Smirnov, Mikhail Smirnov

11:25-11:50 **Indirect dark matter search with gamma rays via open-science tools**

Speaker

Pooja BHATTACHARJEE

11:50-12:00 **Dark matter from dark photons: from Snowmass to the EOSC**

Speaker

Mr Mohamed Berkat

12:00-12:10

Integrating ML algorithms for LHC data compression into the ESCAPE Virtual Research Environment

Speaker

Maxym Nauchyky

12:30

13:30

Presentations from TSP members: Extreme Universe Science Project

Session | **Location:** CERN, 60/6-015 - Room Georges Charpak (Room F) | **Convener:** Elena Cuoco

13:30-13:40 **Brief summary of Extreme Universe Science Project**

Speaker

Elena Cuoco

13:40-14:00

Machine learning for detection of dark matter spike around black holes through gravitational waves

Speaker
Alessandro Parisi

14:00–14:20 **Broad-band SED fitting of blazars**

Speaker
Estelle Pons

14:20–14:40 **Progress report: Wavefier for multi-messenger astronomy**

Speaker
Alberto Iess

14:40–14:55

Study of angular correlation signatures induced on GW stochastic background by lensing effects

Speaker
Giancarlo Cella

15:05

15:20

Presentations from TSP members: Extreme Universe Science Project

Session | **Location:** CERN, 60/6-015 - Room Georges Charpak (Room F) | **Convener:** Elena Cuoco

15:20–15:35 **KM3NeT (Extreme Universe)**

Speaker
Mikhail Smirnov

15:35–15:50 **Compact objects: a multi-wavelength search cloud platform**

Speaker
Dany Vohl

15:50–16:30 **General discussion**

16:45