

WP4 Technology Forum 1

Rapport sur les contributions

ID de Contribution: 1

Type: **Non spécifié**

Welcome and Introductions

mardi 4 février 2020 09:00 (10 minutes)

Short intro from everybody

Orateur: ALLEN, Mark (CDS/CNRS)

Classification de Session: Introduction

ID de Contribution: 2

Type: **Non spécifié**

Overview of ESCAPE and WP4 status

mardi 4 février 2020 09:10 (20 minutes)

Orateur: ALLEN, Mark (CDS/CNRS)

Classification de Session: Introduction

ID de Contribution: 3

Type: **Non spécifié**

Task 4.1 Summary and Status

mardi 4 février 2020 09:30 (15 minutes)

Orateur: MOLINARO, Marco (INAF)

Classification de Session: Introduction

ID de Contribution: 4

Type: **Non spécifié**

Task 4.2 Summary and Status

mardi 4 février 2020 09:45 (15 minutes)

Orateur: GENOVA, Françoise ({{CNRS}}UMR7550)

Classification de Session: Introduction

ID de Contribution: 5

Type: **Non spécifié**

Task 4.3 Summary and Status

mardi 4 février 2020 10:00 (15 minutes)

Orateur: Dr ROMANIELLO, Martino (ESO)

Classification de Session: Introduction

ID de Contribution: 6

Type: **Non spécifié**

ESCAPE Overall project management and communication

mardi 4 février 2020 10:15 (10 minutes)

Orateurs: WAGH, Jayesh (CNRS-LAPP); HUBERT, Mathilde (LAPP)

Classification de Session: Introduction

ID de Contribution: 7

Type: **Non spécifié**

Status of IVOA standards - relevant to CEVO

mardi 4 février 2020 11:00 (20 minutes)

Orateur: BONNAREL, François (CDS ObAS CNRS Université de Strasbourg)

Classification de Session: Session 2

ID de Contribution: **10**

Type: **Non spécifié**

VO Client applications in containers

mardi 4 février 2020 14:00 (20 minutes)

Using sing SPLAT, Topcat, SAMP in docker containers. How to do it, advantages and disadvantages, problems to solve, how to go on?

Orateur: CASTRO NEVES, Margarida

Classification de Session: Session 3

ID de Contribution: **11**

Type: **Non spécifié**

Hack-a-thon Feedback Reports

jeudi 6 février 2020 11:00 (45 minutes)

Classification de Session: Conclusions

ID de Contribution: **12**

Type: **Non spécifié**

Discussion / Planning

jeudi 6 février 2020 11:45 (20 minutes)

Classification de Session: Conclusions

ID de Contribution: 13

Type: **Non spécifié**

Conclusions and next steps

jeudi 6 février 2020 12:05 (25 minutes)

Orateur: ALLEN, Mark (CDS/CNRS)

Classification de Session: Conclusions

ID de Contribution: 15

Type: **Non spécifié**

Research Data Alliance activities of interest for ESCAPE

mardi 4 février 2020 11:20 (20 minutes)

Orateur: GENOVA, Françoise ({CNRS}UMR7550)

Classification de Session: Session 2

ID de Contribution: 16

Type: **Non spécifié**

Practical Tools and methods supported by ESCAPE for gravitational wave localisation

mardi 4 février 2020 11:35 (20 minutes)

We will show an overview of the O3 LIGO-Virgo low-latency multi-messenger program and the main strategies and the ongoing implementations for working with a gravitational-wave sky localization in the context of the ESCAPE project.

Orateur: GRECO, Giuseppe (Università degli Studi di Urbino "Carlo Bo")

Classification de Session: Session 2

ID de Contribution: 17

Type: **Non spécifié**

Implementations of the IVOA Provenance data model

mercredi 5 février 2020 10:00 (20 minutes)

The provenance data model proposed as a recommendation to the IVOA is now the base of several implementations. I focused on the capture of relevant provenance information within data processing packages like `gammapy` and `ctapipe`, and the job execution tool `OPUS`.

Orateur: SERVILLAT, Mathieu (LUTH, Observatoire de Paris)

Classification de Session: Session 5

ID de Contribution: **18**

Type: **Non spécifié**

Adding a service to EOSC

mardi 4 février 2020 14:20 (20 minutes)

A short study about how to propose its service(s) through EOSC

Orateur: SCHAAFF, Andre (CNRS)

Classification de Session: Session 3

ID de Contribution: **19**

Type: **Non spécifié**

VO data access and visualisation developments

mardi 4 février 2020 14:40 (20 minutes)

Orateur: BAUMANN, Matthieu

Classification de Session: Session 3

ID de Contribution: **20**

Type: **Non spécifié**

ESCAPE WP5 platform

mardi 4 février 2020 15:00 (20 minutes)

Orateur: MEYER-ZHAO, Zheng (ASTRON)

Classification de Session: Session 3

ID de Contribution: 21

Type: **Non spécifié**

Real time spectral analysis and visualization with autoencoders

mercredi 5 février 2020 09:00 (20 minutes)

The data explosion in astronomy requires the development of new techniques both from the infrastructure and from the analysis side. In particular, the increase of the data complexity demands a parallel effort to deliver efficient and standardized solutions for accessing and managing data, tools and software. The aim of the ESCAPE project is to build a huge European collaboration to face the new challenges given by data-driven research, complex data workflows, infrastructural issues, data and software interoperability. I will present the prototype that resulted from the first year of work within the project in the form of a live demo. The prototype is a tool for dimensionality reduction and visualization of spectra with an autoencoder and other analogous models, meant to allow users to inspect and interact with astronomical data, and in particular spectra, in a novel way.

Orateur: Dr D'ISANTO, Antonio (HITS gGmbH)**Classification de Session:** Session 5

ID de Contribution: 22

Type: **Non spécifié**

Space Time Coverage manipulation by STMOC

mercredi 5 février 2020 09:20 (20 minutes)

STMOC -Space-Time MultiOrder Coverages - offer an unify solution for handling spatial and temporal coverages. This is one of the keys for efficient and fast interoperability tools. We will briefly present the principles of STMOC, the existing implementations, and some scientific use-cases.

Orateur: FERNIQUE, Pierre

Classification de Session: Session 5

ID de Contribution: **23**

Type: **Non spécifié**

STILTS server-side visualisation

mercredi 5 février 2020 09:40 (20 minutes)

Orateur: TAYLOR, Mark

Classification de Session: Session 5

ID de Contribution: 24

Type: **Non spécifié**

Making neutrinos public - open data in KM3NeT

mercredi 5 février 2020 11:00 (20 minutes)

In this presentation, an overview is given over the efforts of the KM3NeT collaboration to include the requirements for FAIR data already at the early stages of the construction of the high-energy neutrino experiment. Producing scientific results both in the fields of particle physics and astrophysics, the KM3NeT software and data management build both on HEP technologies and move towards the integration into the Virtual Observatory. While test data is taken by the first deployed detection units of the the large-scale experiment in the Mediterranean Sea, the specific challenges to unite scientific requirements for the publication of data used in different areas of physics become clearer and will be presented.

Orateur: SCHNABEL, Jutta (Friedrich-Alexander Universität Erlangen-Nürnberg)

Classification de Session: Session 6

ID de Contribution: 25

Type: **Non spécifié**

Vocabularies in the VO: Lessons learned from the first VEPs

mercredi 5 février 2020 11:20 (20 minutes)

In this talk, I will briefly review the goals of the effort of updating Vocabularies in the VO and the current ideas on how to reach them. Based on this, I will discuss how the first few Vocabulary Enhancement Proposals (which are the means of vocabulary management foreseen in the WD) went and what conclusions I draw from that.

Orateur: DEMLEITNER, Markus

Classification de Session: Session 6

ID de Contribution: **26**

Type: **Non spécifié**

Cone Search with time

mercredi 5 février 2020 11:40 (20 minutes)

Orateur: MOLINARO, Marco (INAF)

Classification de Session: Session 6

ID de Contribution: 27

Type: **Non spécifié**

Deep Spectral Exploration

mercredi 5 février 2020 12:00 (20 minutes)

In this talk I will go over our recent efforts in utilization of deep learning techniques towards making sense of big astronomical archives. Particularly we will see a demo of the first prototype of RETR-SPECT: a retrieval engine for spectra. I will follow with an exemplar illustration of how we can learn from (BIG) data in astronomy.

Orateur: SEDAGHAT, Nima (ESO)

Classification de Session: Session 6