



ESCAPE

European Science Cluster of Astronomy &
Particle physics ESFRI research Infrastructures

The ESCAPE VO School

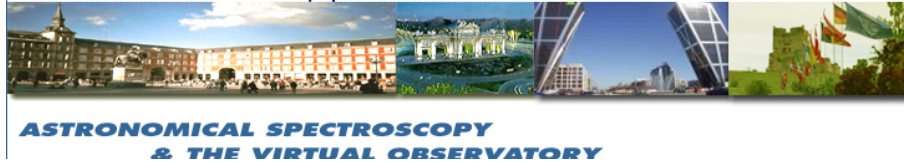
Enrique Solano. SVO (INTA-CSIC)
WP4 Tech. Forum 2.



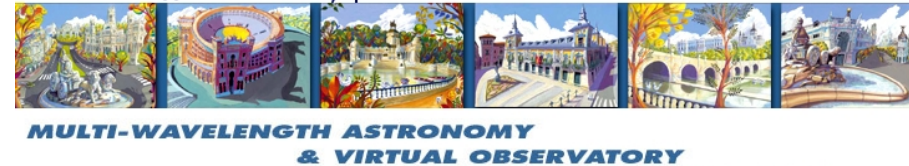
Introduction

- Science is the VO's main driver.
- How to reach researchers?
 - Different ways were explored in the past.

21-23 March 2007: ESAC - Madrid, Spain



1-3 December 2008: ESAC - Madrid, Spain




European Southern Observatory

ESO — Reaching New Heights in Astronomy

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Science Archive Facility

- Data Portal
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- ESO Data Access Policy

EURO-VO AIDA Research Initiative, deadline June 15, 2008

Published: 18 Apr 2008

Within the framework of AIDA (Astronomical Infrastructure for Data Access), the European Virtual Observatory (EURO-VO) project is seeking proposals from teams carrying out archival research or projects that could benefit from the Virtual Observatory concept. The Virtual Observatory tools and applications allow seamless access to most of the world's large data archives such as ESO, ESA or HST. They also allow users to access a huge variety of reduced multiwavelength data and catalogues and to perform high-level analysis of images, spectra and large tabular datasets. Successful applicants will receive support from EURO-VO astronomers in using the VO facilities and software to complete their projects.

For more details on the call and the submission procedure, see http://www.euro-vo.org/pub/fo/AIDA_call_2008.html

The deadline for applications is June 15, 2008.



Introduction

- Science is the VO's main driver.
- How to reach researchers?
 - Different ways were explored in the past.



2008-2010 (2)



2010-2012 (1)



2012-2015 (1)



2015-2019 (4)



The VO schools: Goals

- Expose early-career European astronomers to the variety of currently available VO tools and services so that they can use them efficiently for their own research.
 - VO experts guide participants on the usage of the tools through a series of predefined science cases.
 - Participants also have the opportunity to develop their own science cases under the guidance of VO tutors.
- Gather their feedback on the VO tools and services and the school itself.



The ESCAPE VO school

- Initially foreseen to be held in **March / April 2020.**
- **Delayed to 26-28 May 2020** due to:
 - Availability of the venue at CAB (Madrid).
 - Availability of the personnel contributing to the tutorials.

Hi Mark,

I plan to write to you tomorrow about this.

2020 March 3rd.

The coronavirus crises will have a clear impact on the school. At present, the entrance of visitors to ESAC is strictly forbidden. Even staff arriving at ESAC by public transportation have been requested to telework at home.

Given that the number of infected people is still increasing in Spain, in particular in the Madrid area, I do not expect a change in the prevention measures in the coming weeks.

In my opinion, we should cancel the school and postpone it for the next year. Given the situation, I do not think Brussels complains about this.

Dear Enrique,

With the information about the restrictions at ESAC, and the whole uncertainty of the situation, I think we do need to cancel.

I wonder if we should consider some kind of virtual event, favouring one-on-one (or small group) support to participant projects. Just an idea - but we could use the difficult situation to propose something innovative/experimental.

cheers,
Mark



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Mina Koleva
Policy Officer, European Commission
DG Research and Innovation

Date: 30 March 2020

Subject: Request to evoke article 51 of the H2020 ESCAPE grant agreement number 824064 in view of COVID-19 pandemic impacts on the ESCAPE project

Considering the impact of the pandemic on the ESCAPE workprogramme, we would to use the provision of *Article 51 – Force Majeure* of the ESCAPE grant agreement number 824064 to mitigate the risks.

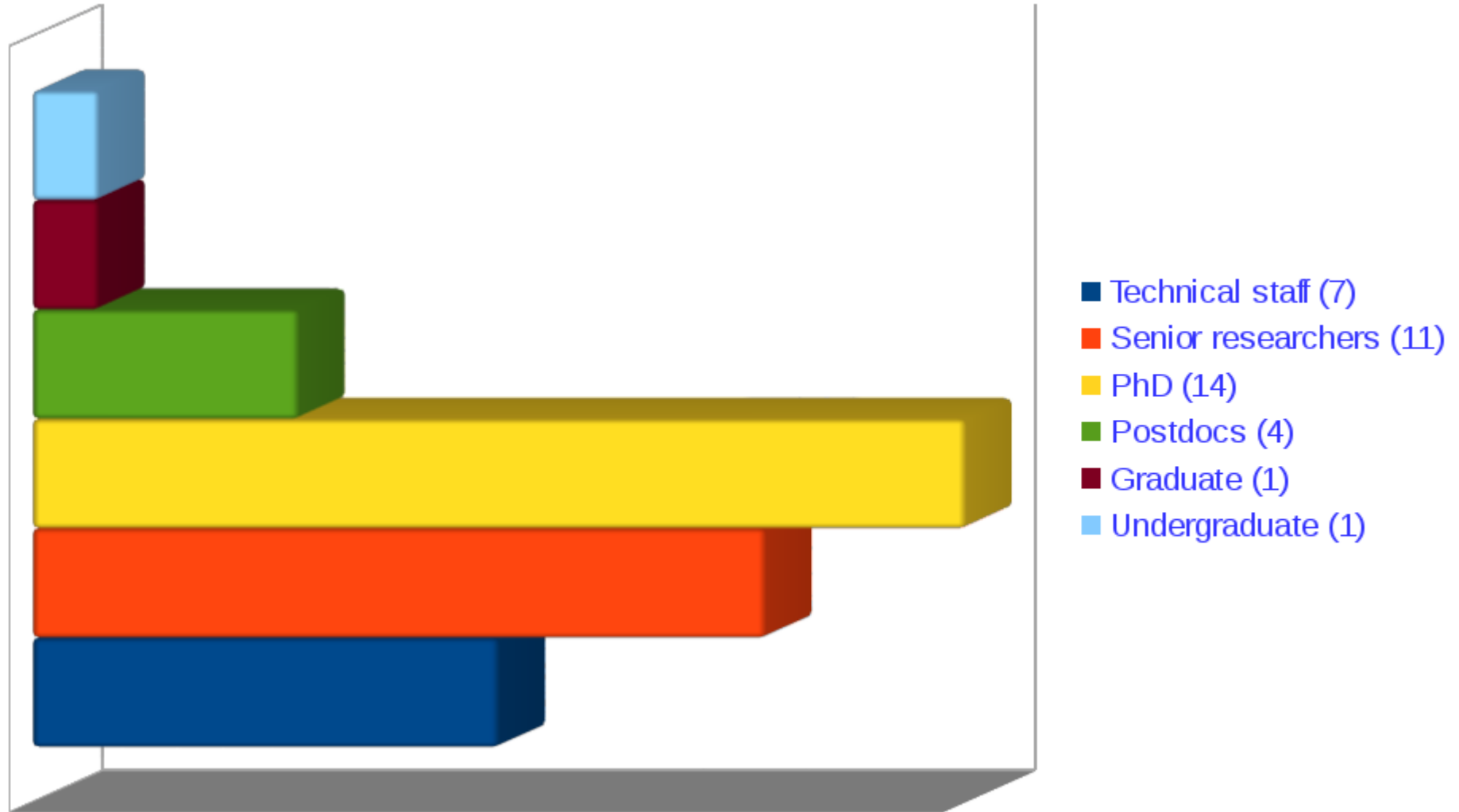


The ESCAPE VO school

- Sep 2020: CDS-INTA meeting to re-schedule the school
 - --> **8-12, 19 Feb 2021.**
- **On-line** (using Zoom and Slack)
- Open to European countries (including non-partners countries).
- **First announcement** released on **11 October 2020**, with a registration deadline set to 15 December 2020.
- **46 registered participants. Final attendance: 38 participants** (+13 tutors).
- **Website** set up to provide all the necessary information before and during the school.



The ESCAPE VO school: Participants' profile



The ESCAPE VO school: Participants' profile

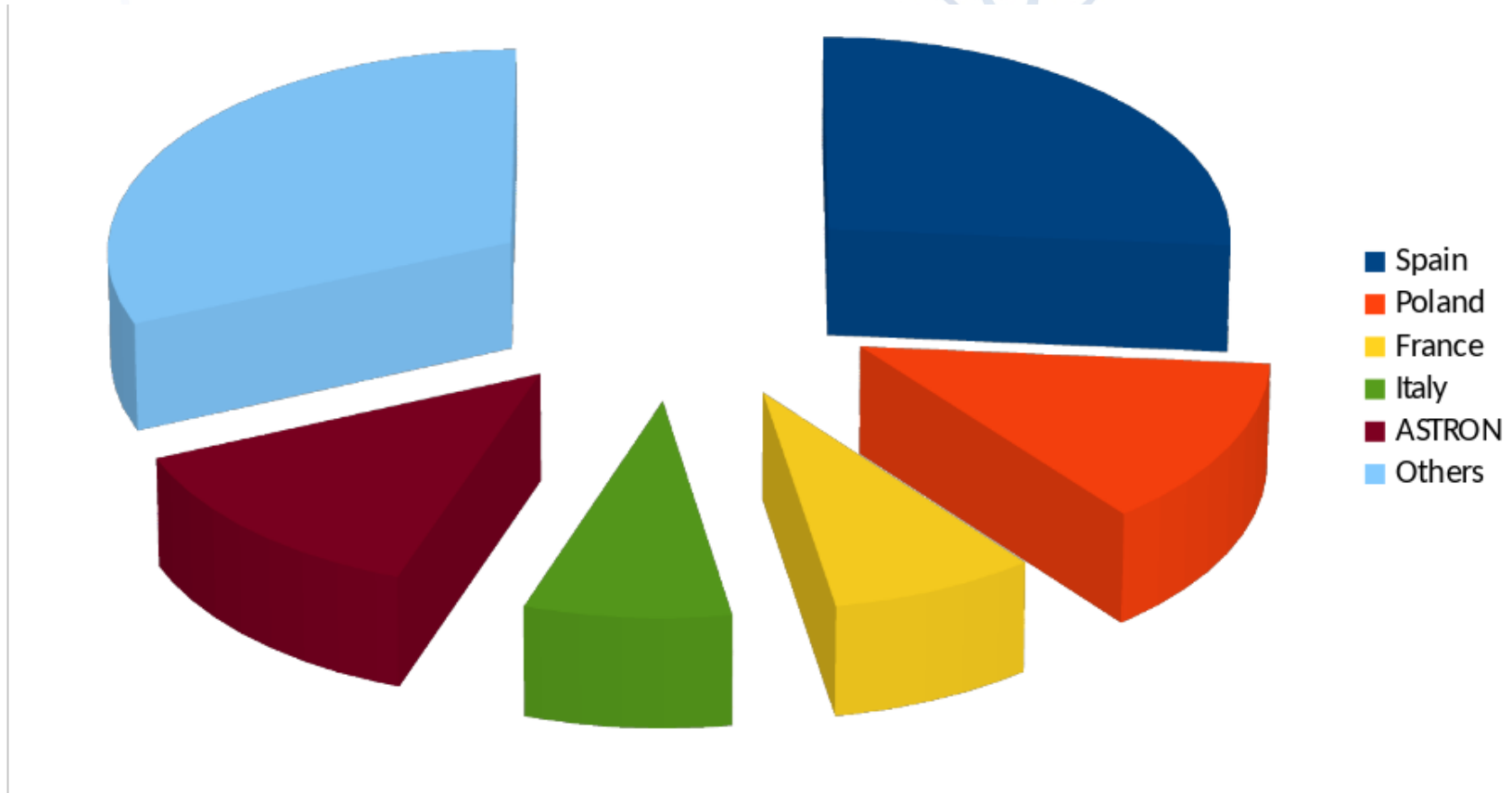
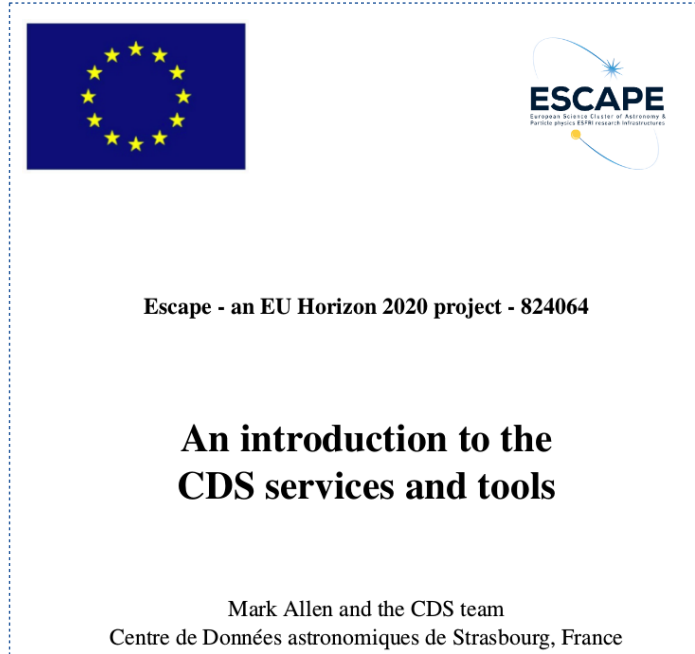


Figure 1: Chart pie showing the distribution of participants by country / institute of origin: Spain (10), Poland (5), ASTRON (5), France (3), Italy (3), Brazil (1), Bulgaria (1), CTA (1), Chile (1), ESA (1), Germany (1), Ireland (1), Namibia (1), Switzerland (1), Turkey (1), UK (1), USA (1).



The ESCAPE VO school: Programme

- **Each day focused on a specific VO tool / service.**
 - Aladin (Monday), CDS portal (Tuesday), VOSA (Wednesday), TOPCAT (Thursday), ADQL (Friday).
- **Tutorials updated** to account for
 - Latest versions of tools and services
 - Latest catalogue releases
 - Feedback from participants in previous VO schools.



The ESCAPE VO school: The online challenge



The ESCAPE VO school: The online challenge

- **Chair tutor**
 - Responsible for setting up session, organising breakout rooms, taking care the chat and delivering questions to tutors.
- **Main tutor**
 - Runs the tutorial and answers questions of general interest in the main room.
- **Co-tutors**
 - Support participants via chat / breakout rooms and Slack (when no Zoom session is open).



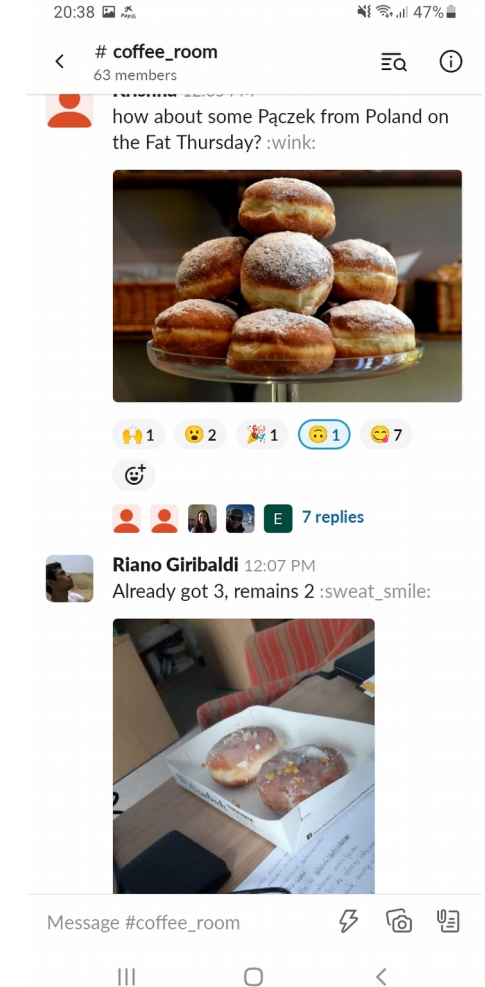
The ESCAPE VO school: Programme

Day 1. Monday 8 February (09:15h - 13:00h CET)

- 09:15 - 09:30 Reception of participants. Check that everything (zoom, slack, video, audio,...) is working well (Miriam Cortés)
- 09:30 - 09:35 **Welcome** (Mark Allen)
- 09:35 - 10:00 **Introduction on VO and the School** (Enrique Solano)
- 10:00 - 12:00 Tutorial #1: **Discovery of Brown Dwarfs mining the 2MASS and SDSS databases using Aladin (PDF)**

- 12:00 - 12:15 Break
- 12:15 - 12:30 Questions on the tutorial
- 12:30 - 13:00 **Archives in the VO** (Enrique Solano)

PyVO
Other VO tools and services
Big data and the VO.



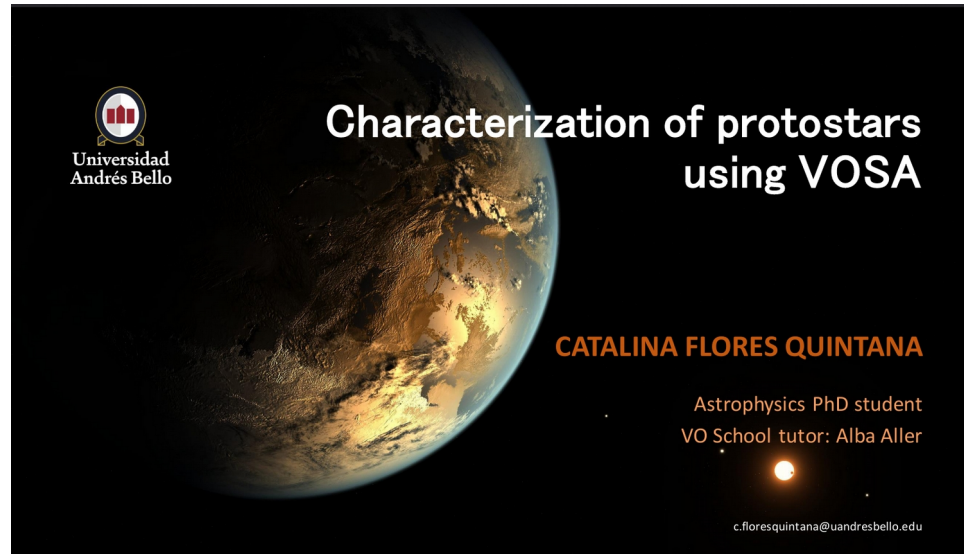
The ESCAPE VO school: Participants' projects


Day 5. Friday 12 February (09:45h - 13:00h CET)

- 09:45 - 10:00 Time to comment the most relevant discussions on Slack (Miriam Cortés)
- 10:00 - 11:00 Tutorial #5: **ADQL**
 - Tutor: Hendrik Heinl
 - Backup tutors: Katharina Lutz, Ada Nebot, Sebastien Derriere, Mark Allen
- 11:00 - 11.30 **Feedback and summary of the week** (Enrique Solano)
- 11:30 - 11:45 **Group picture and wrap-up** (Mark Allen)
- 11:45 - 13:00 **Participants projects**. Instructions for the science cases presentations (Enriqu

Day 6. Friday 19 February (09:45h - 13:15h CET)

- 09:45 - 10:00 Time to comment the most relevant discussions on Slack (Miriam Cortés)
- 10:00 - 10:45 Presentations of participants (Katharina Lutz)
 - 10:00 - 10:15 André Rodrigo da Silva: "Confirming atmospheric parameters of peculiar s-/r-process metal-poor stars with VOSA"
 - 10:15 - 10:30 Sagar Sethi: "A sample study of radio galaxy properties using VO tools".
 - 10:30 - 10:45 Cata Flores: "Characterization of protostars using VOSA".
- 10:45 - 11:00 Break
- 11:00 - 11:45 Presentations of participants (Katharina Lutz)
 - 11:00 - 11:15 Sarkis Kassounian
 - 11:15 - 11:30 Adrian Griber: "Exploring Kepler-1661 data using VO Tools and FITS2OSC"
 - 11:30 - 11:45 Mischa Breuhaus: "Gamma-ray emission from star forming regions"



 **Universidad Andrés Bello**

Characterization of protostars using VOSA

CATALINA FLORES QUINTANA

Astrophysics PhD student
VO School tutor: Alba Aller

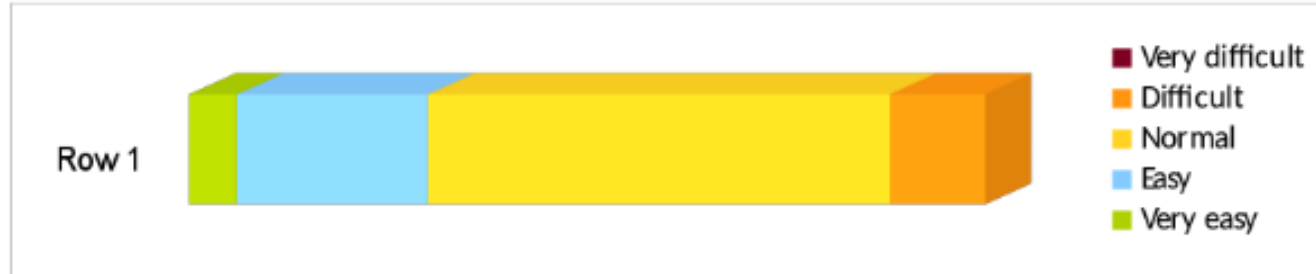
c.floresquintana@uandresbello.edu



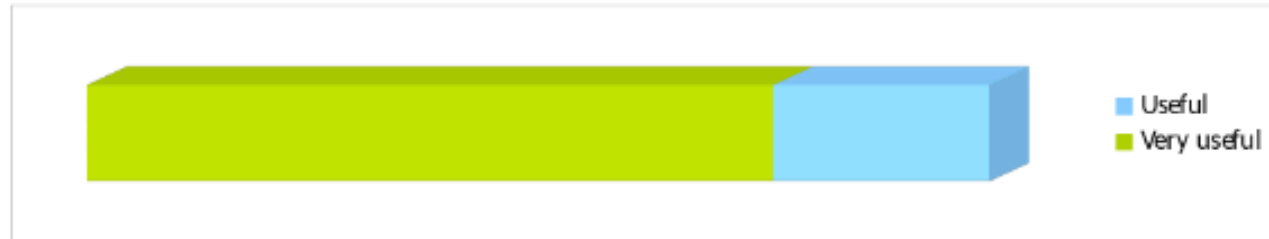
The ESCAPE VO school: Feedback

- Tutorial: The CDS tutorial

- How easy or difficult was the tutorial?



- How useful was the tutorial?



The time allocated to the tutorial was



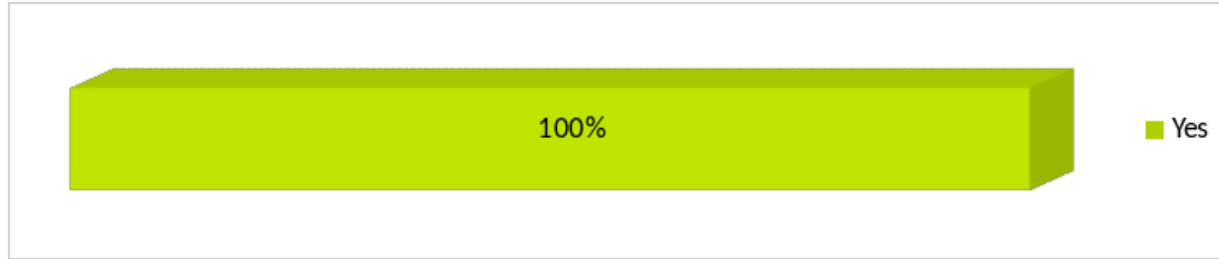
The ESCAPE VO school: Feedback

- **Tools:** *VOSA will be a great tool for AGN researchers if it would be able to fit their photometric curves as easily as with stars.*
- **Tutorials:**
 - *More x-matching of catalogues, juggling between images.*
 - *I would have appreciated a longer session dedicated to pyVO, in particular: how to implement VO tools in my python script*
- **Data:** *Would be nice if more non-imaging data would be added (timing, transients, radio data, ...).*
- **Other VO topics:** *I would like to know about publishing data on your own VO*

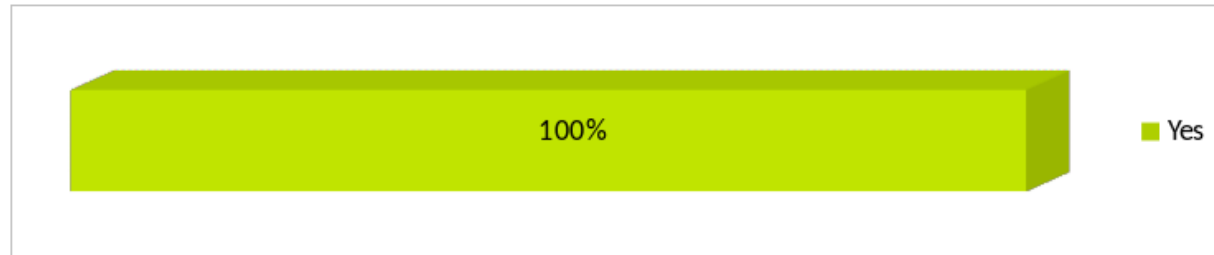


The ESCAPE VO school: Feedback

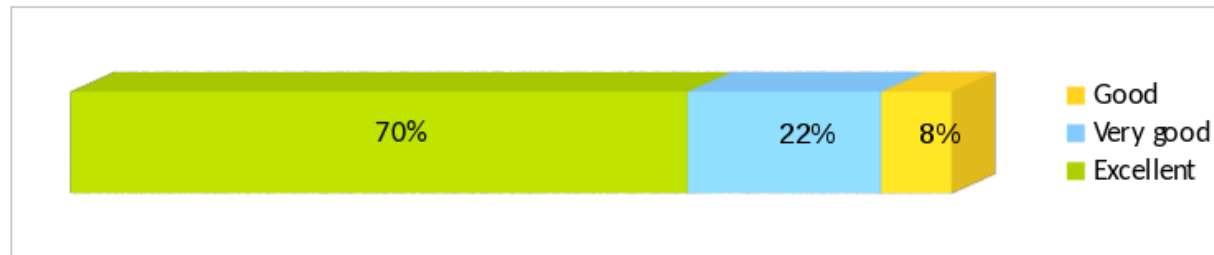
- Do you foresee to use VO tools in your research ?



- Would you attend an advanced VO school? ?



- How would you rate the school overall ?



The ESCAPE VO school: Conclusions

- The meeting was a **success**, with a great atmosphere favouring discussions.
- The two goals previously mentioned were successfully **achieved**.
- Participants' **comments** were **very positive**.
 - *Great school! Thanks for organising it!*
 - *I cannot wait to attend the advanced VO school! Thanks to all the organizers!*
 - *The school was very useful, thank you very much for all the hand-on sessions and the interesting talks!*
 - *This is by far the best school I have attended during the pandemic :) thank you!*

