

Covid-19 rules:

Unfortunately, the pandemic has not completely disappeared, and it is still required to be aware of possible contaminations. There is no mandatory requirements anymore, but in case of suspect symptoms or for persons with low immunity, wearing a mask may be a good precaution.

Anti-harassment policy :

Obviously, the school must be safe of any reprehensible behaviour and will follow the code of conduct rules as in European meetings (<https://www.europlanet-society.org/code-of-conduct/>) - the organizers of the school will be in charge to enforce the code of conduct and will support or advise all the participants.

Please check the web site explanations for the training sessions :
https://www.ariel-mission.fr/wp-content/uploads/sites/2/2023/07/Introduction_training.pdf

In addition the following script allows you to install in advance the necessary files/software

1) Part Retrieval training

Pandexo :

```
pip install pandexo.engine
```

```
# Script for downloading cross section files from exomol  
# You can find other molecules on the Exomol website if needed  
# https://www.exomol.com/data/molecules/
```

```
mkdir ./xsec_exomol/  
cd ./xsec_exomol/
```

```
wget https://www.exomol.com/db/VO/51V-160/VOMYT/51V-160\_VOMYT.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/TiO/48Ti-160/Toto/48Ti-160\_Toto.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/CO/12C-160/Li2015/12C-160\_Li2015.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/FeH/56Fe-1H/MoLLIST/56Fe-1H\_MoLLIST.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/CH4/12C-1H4/YT34to10/12C-1H4\_YT34to10.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/NH3/14N-1H3/CoYuTe/14N-1H3\_CoYuTe.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/H2O/1H2-160/POKAZATEL/1H2-160\_POKAZATEL\_R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/CO2/12C-1602/UCL-4000/12C-1602\_UCL-4000.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/HCN/1H-12C-14N/Harris/1H-12C-14N\_Harris.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/H2S/1H2-32S/AYT2/1H2-32S\_AYT2.R15000\_0.3-50mu.xsec.TauREx.h5  
wget https://www.exomol.com/db/Na/23Na/Kurucz-Na/23Na\_Kurucz-Na.R15000\_0.3-50mu.xsec.TauREx.h5.gz  
wget https://www.exomol.com/db/PH3/31P-1H3/SALTY/31P-1H3\_SALTY.R15000\_0.3-50mu.xsec.TauREx.h5
```

```
cd ..
```

2) Part ML Training :

<https://filesender.renater.fr/?s=download&token=d07475ca-a506-495b-aaca-064f118ddfcf>

Some changes will be made onsite, but the files have already the heavy parts ready

For environment, a python environment is OK with additional commands

```
pip install ipykernel
ipython kernel install --user --name ariel-biarritz
pip install numpy
pip install pandas
pip install h5p5
pip install matplotlib
pip install pytorch-lightning
pip install corner
pip install scikit-learn
pip install nestle
--
```