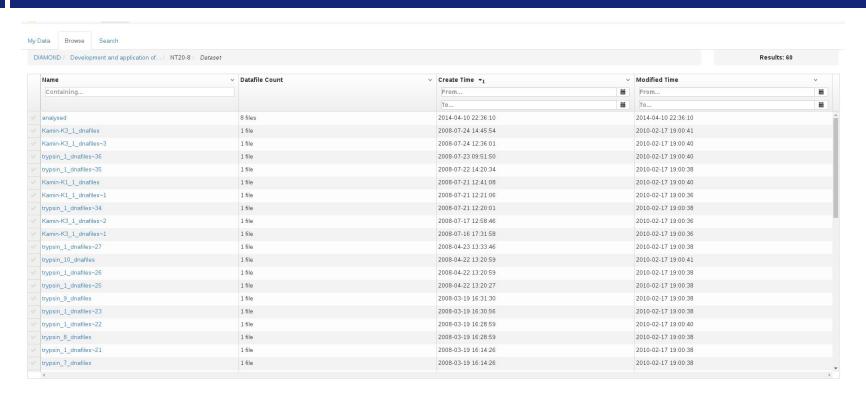
ESRF Topcat Plugins

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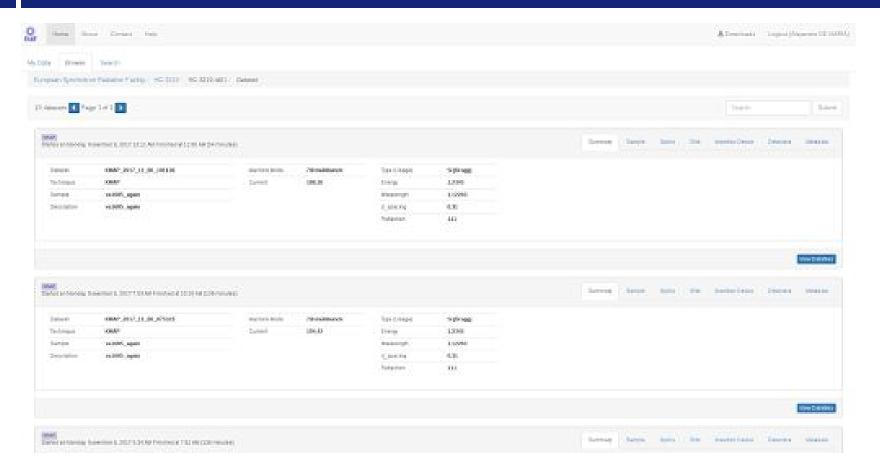
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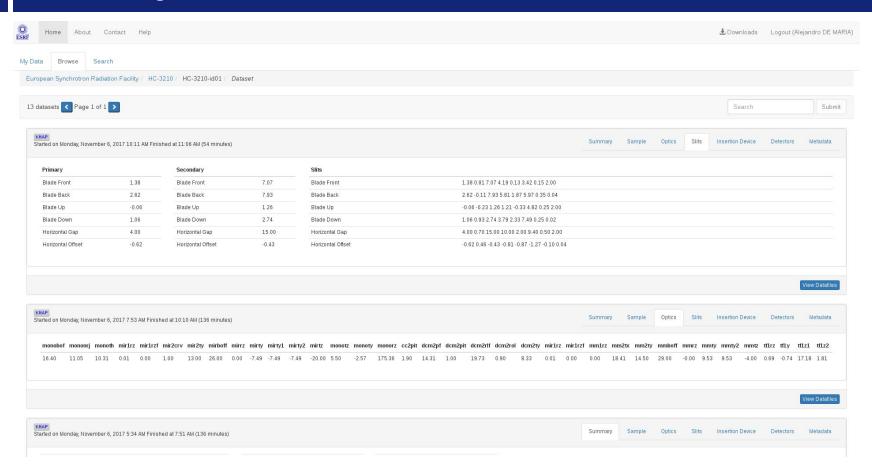
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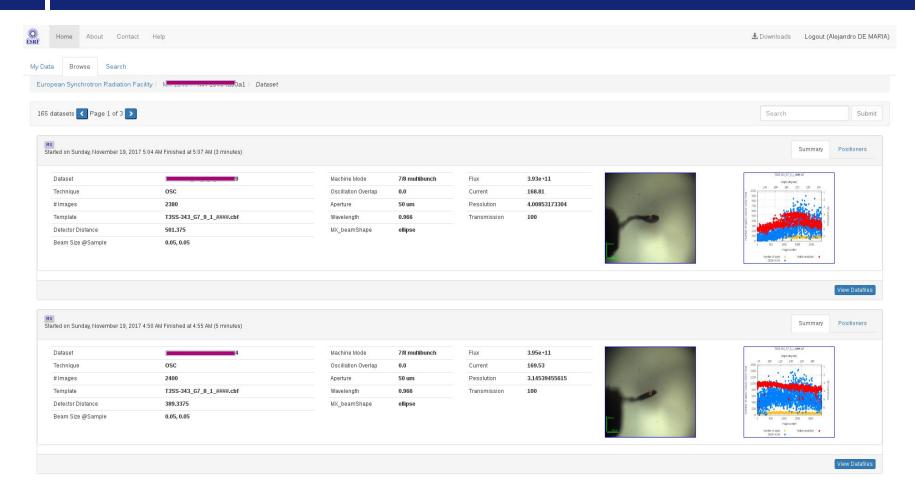
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Goal

- Enhance the value of the metadata
- Customize the presentation of each type of dataset
- Quick search (still under development)







My experience with plugins

- Background
 - No/little experience with Angular
 - No/little experience with TopCAT
- Working on the presentation layer was more or less straight-forward
- Retrieving data from ICAT was a little bit tricky

First Approach query:

select dataset from Dataset dataset, dataset.investigation as investigation where <u>dataset.id</u> = 50878175
INCLUDE dataset.investigation, dataset.parameters.type, dataset.type

It returns for each parameter:



When I am interested on:

"InstrumentDetector01_name": "iodet2"

Second Approach query:

```
"SELECT dataset.id, dataset.name, parameterType.name, parameter.stringValue, parameter.numericValue ",
"FROM DatasetParameter as parameter ",
"JOIN parameter.dataset dataset ",
"JOIN parameter.type parameterType ",
"JOIN dataset.investigation investigation ",
"where investigation.id = ? limit ?, ?", investigationId, (page - 1) * pageSize, pageSize
```

It returns for each dataset:

```
[[21580, "scan1", "machineMode", "4", null, "None"], [21580, "scan1", "cameraName", "test camera", null, "None"], [21580, "scan1", "machineCurrentStart", null, 25.0, "mA"][.....]
```

Then some post-processing is need

- Writing plugins on TopCAT is easy and powerful
- It allows configure and customize TopCAT for each facility
- It does not guarantee that users will enjoy the experience of using TopCAT
 - Intuitive
 - Fast
 - Attractive
 - Responsive
- Worries about to put more efforts on this version of TopCAT
 - Get the right framework
 - Convention vs Configuration