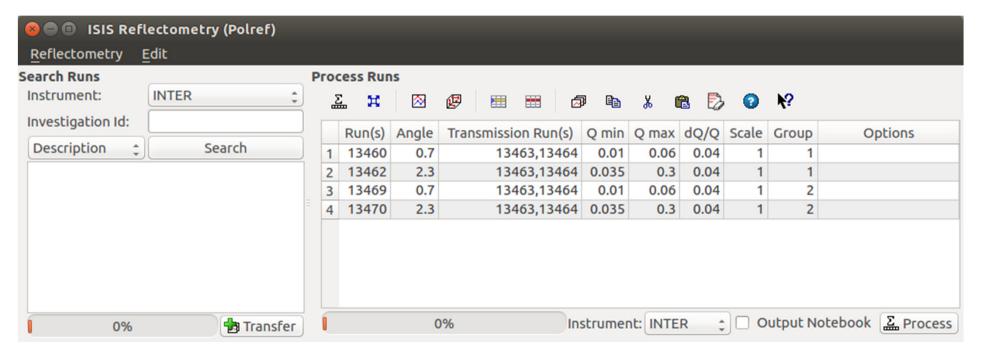


# Design document

- Execute complex batch-processing via DataProcessorAlgorithms
- Technique areas that have/need similar functionality
- SANS (ANSTO + ISIS), Powder (SNS), SCD (SNS)
- Reflectometry (Polref) GUI

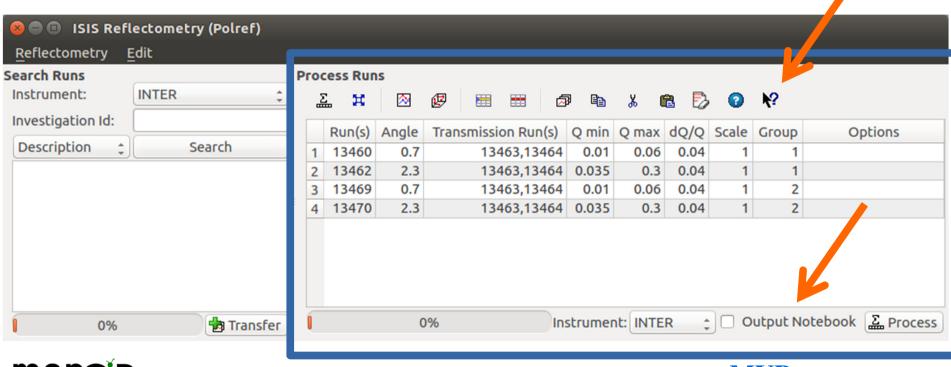


## **MANTÍD**



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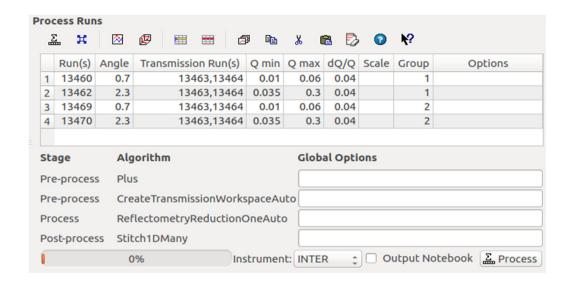


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**MVP** 



- •How to create a table:
  - Whitel ist
  - Pre-processing alg. (map)
  - Processing algorithm
  - Post-processing algorithm







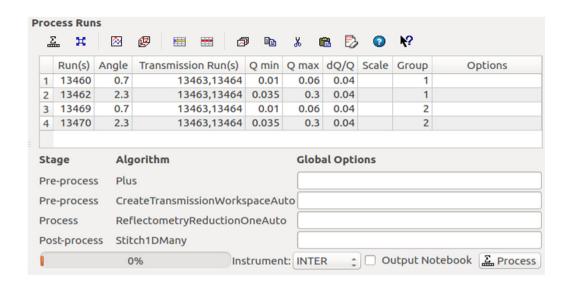
- •How to create a table:
  - Whitel ist
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1	13460	0.7	13463,134	64 0.01	0.06	0.04		1	
2	13462	2.3	13463,134	64 0.035	0.3	0.04		1	
3	13469	0.7	13463,134	64 0.01	0.06	0.04		2	
4	13470	2.3	13463,134	64 0.035	0.3	0.04		2	
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- •How to create a table:
  - WhiteList
  - Pre-processing alg. (map)
  - Processing algorithm
  - Post-processing algorithm



```
// The data processor algorithm
ProcessingAlgorithm processor(
           "ReflectometryReductionOneAuto",
           /*The blacklist*/
                                                    // The post-processing algorithm
           std::set<std::string>{
                                                    PostprocessingAlgorithm(
           "ThetaIn",
                                                                "Stitch1DMany",
           "ThetaOut",
                                                                "IvsQ ",
           "InputWorkspace",
                                                               /*The blacklist*/
           "OutputWorkspace",
                                                               std::set<std::string>{
           "OutputWorkspaceWavelength",
                                                                "InputWorkspaces",
           "FirstTransmissionRun",
                                                                "OutputWorkspace"})
           "SecondTransmissionRun",
           ...});
```

