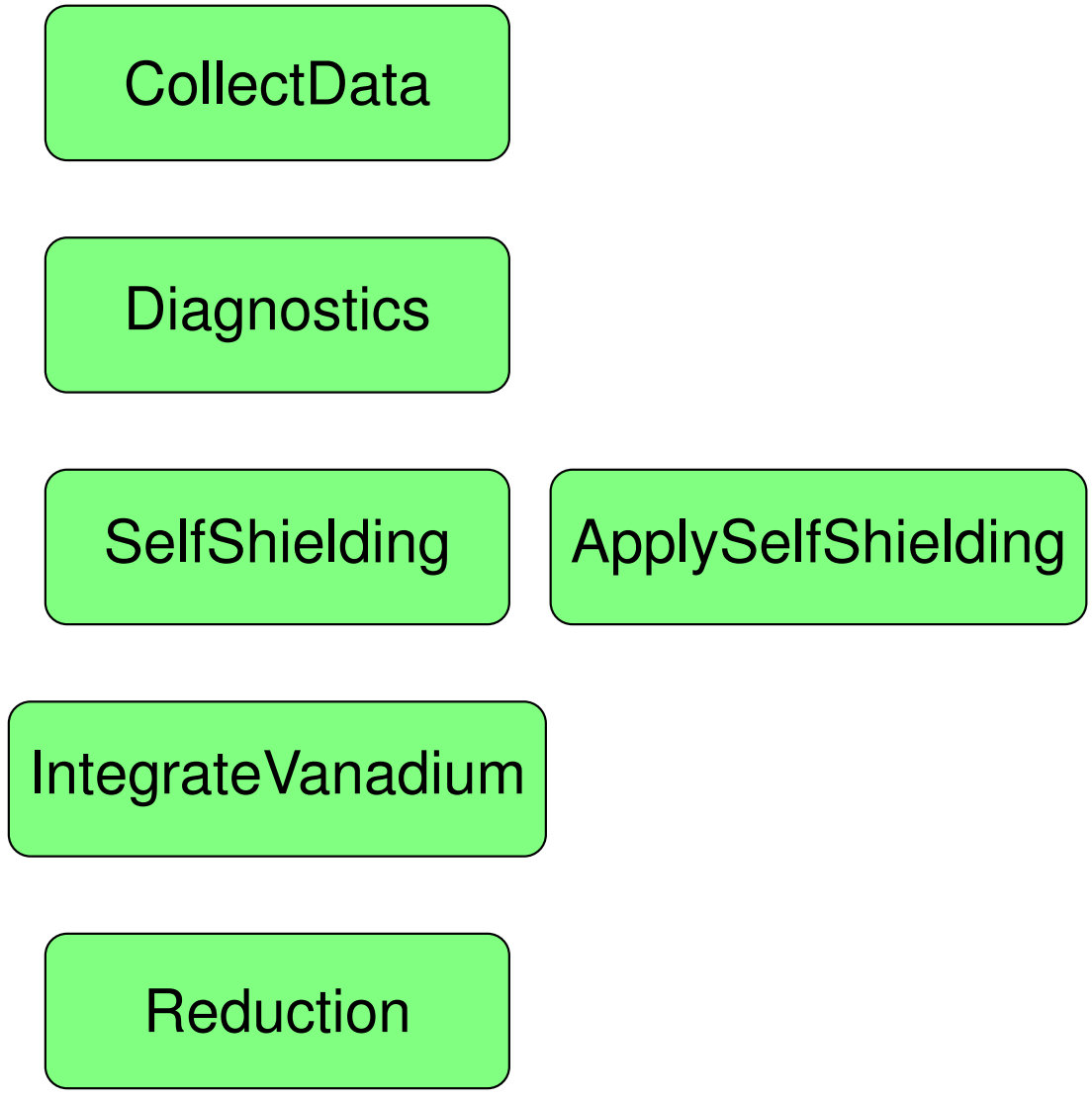
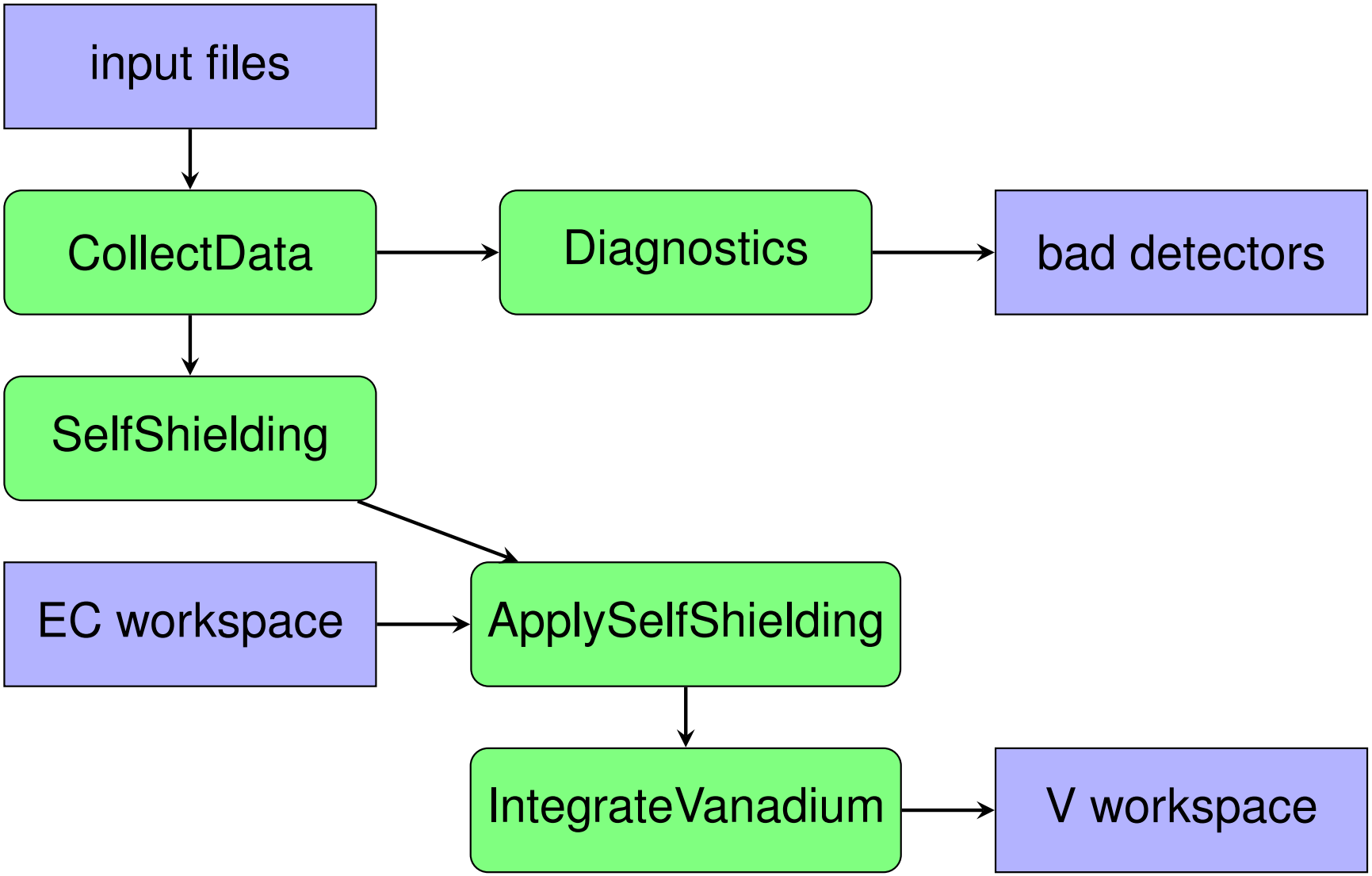
TOF reduction: the algorithms

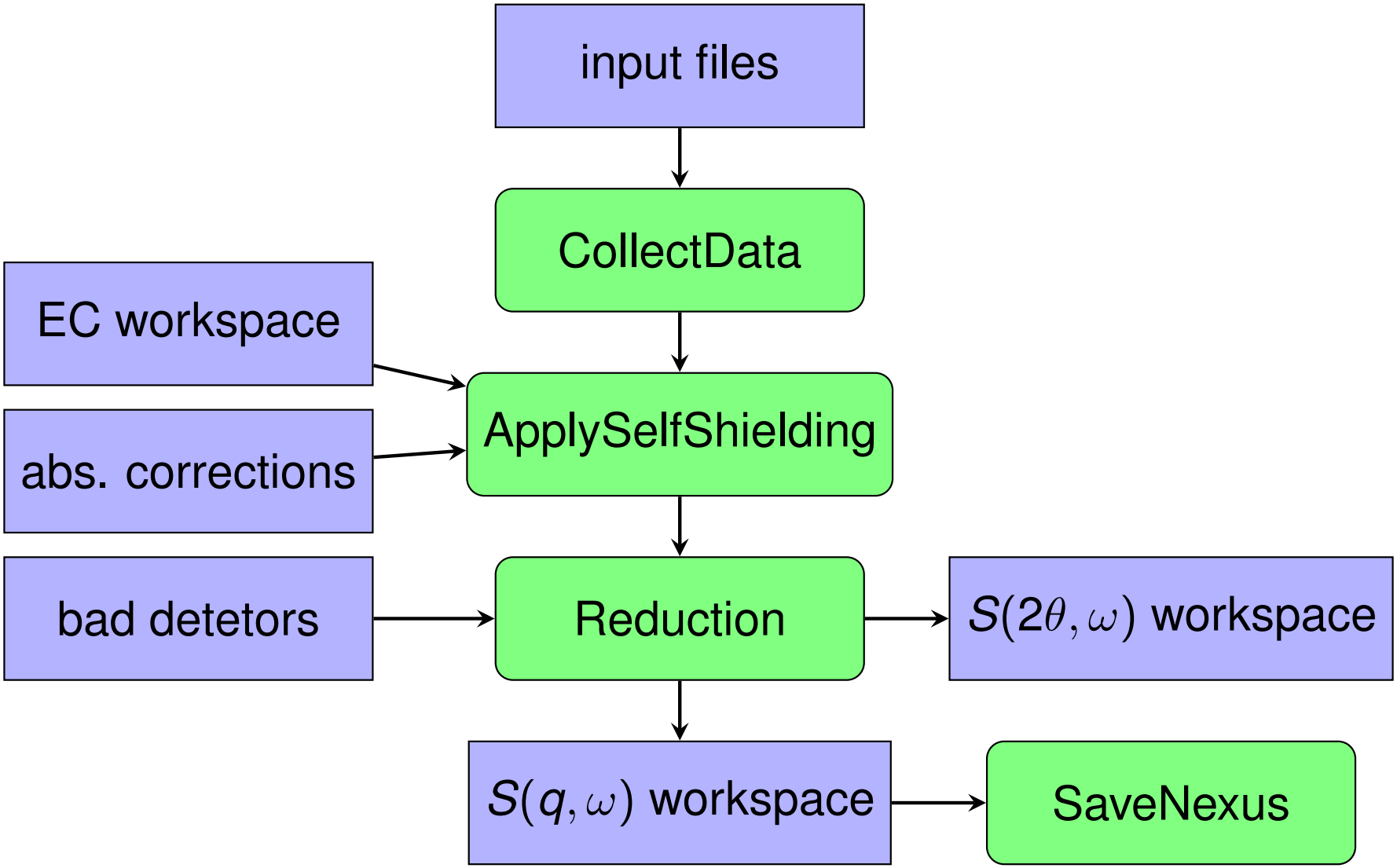
- The workflow consists of several *algorithms*.
- Flexible, should account for most reduction scenarios.



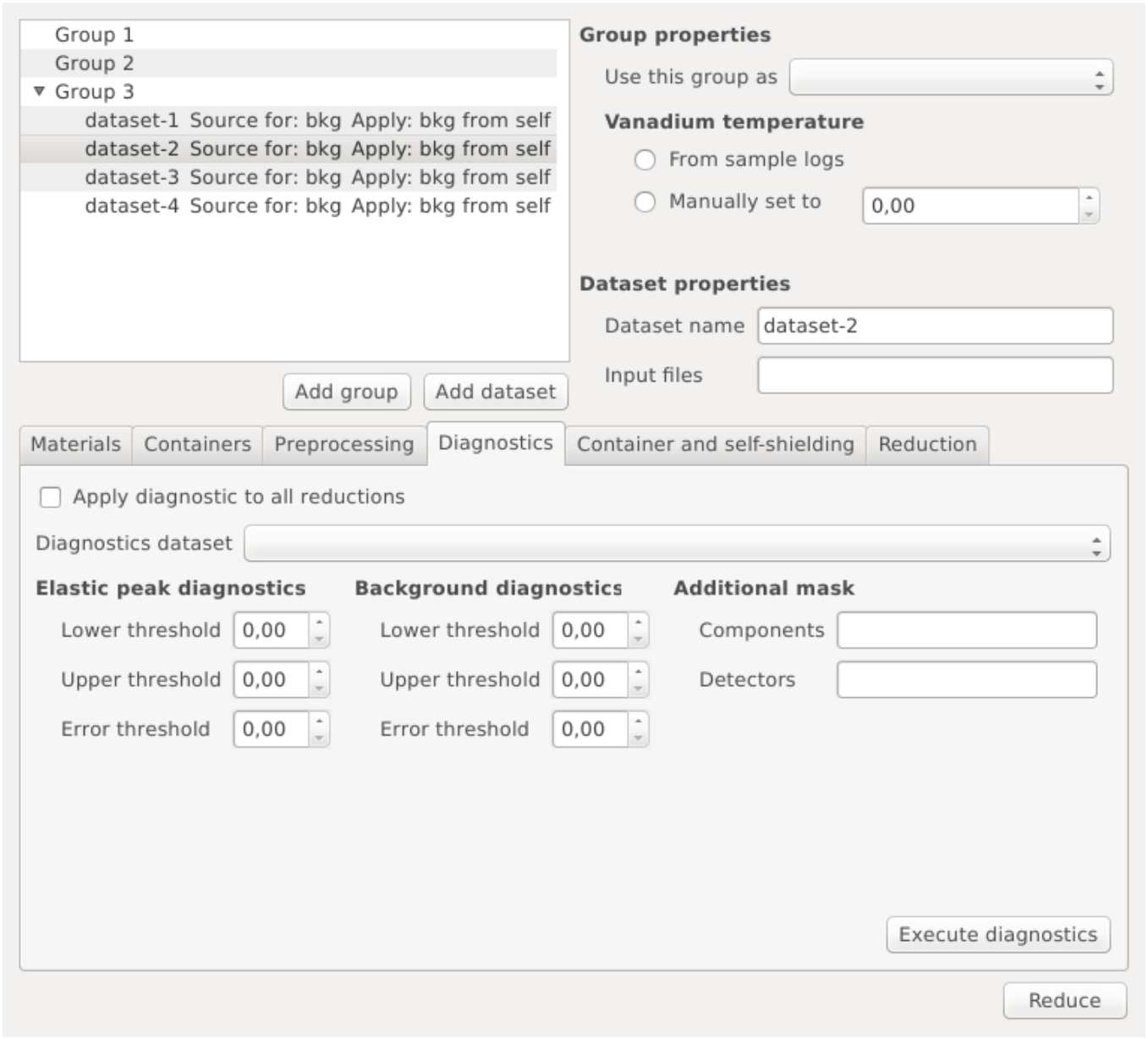
Example: Vanadium reduction



Example: sample reduction



Future: GUI


Group 1
Group 2
Group 3
dataset-1 Source for: bkg Apply: bkg from self
dataset-2 Source for: bkg Apply: bkg from self
dataset-3 Source for: bkg Apply: bkg from self
dataset-4 Source for: bkg Apply: bkg from self
Add group
Add dataset
Group properties
Use this group as
Vanadium temperature
From sample logs
Manually set to
0,00
Dataset properties
Dataset name
dataset-2
Input files
Materials
Containers
Preprocessing
Diagnostics
Container and self-shielding
Reduction
Apply diagnostic to all reductions
Diagnostics dataset
Elastic peak diagnostics
Lower threshold
0,00
Upper threshold
0,00
Error threshold
0,00
Background diagnostics
Lower threshold
0,00
Upper threshold
0,00
Error threshold
0,00
Additional mask
Components
Detectors
Execute diagnostics
Reduce

Real-life example

	Sample			EC		V
λ	1.5 K	50 K	100 K	1.5 K	100 K	100 K
3.06 Å	X	X	-	X	X	X

Accessing Mantid

- We can provide installers.
- We can provide initial scripts.
- We provide support.
- All feedback is most welcome!