Workflow algorithms

- ▶ Problem: Workflows depend on each other
    - ▶ Vanadium, empty vanadium, Cd, EC, samples
    - ▶ Recursive workflow algorithm calls or cramming everything in a single algorithm ⇒ complex code
- ▶ Solution: Outsource dependency resolution and data flow control

WorkflowAlgorithmRunner

- ▶ Keep the workflow algorithm as simple as possible
  - ▶ Runs only single reduction at time
- ▶ `WorkflowAlgorithmRunner`
  - ▶ decides the order of workflow runs
  - ▶ connects output workspaces to inputs
- ▶ General approach; can be used in the workflows of the future

```
https://github.com/mantidproject/documents/
blob/master/Project-Management/ILL/
WorkspaceAlgorithmRunner.md
```

Recent progress

- `DGSReductionILL` in a somewhat usable state
  - Needs more work, polishing, testing, documentation!
  - Some functionality needs to be moved to other algorithms
- `WorkflowAlgorithmRunner`
  - Works well with `DGSReductionILL`
  - Needs polishing, testing, documentation!
  - Maybe handle as a separate issue in Mantid?
- List of absorption correction algorithm available in Mantid:
  https://github.com/mantidproject/documents/
  blob/master/Project-Management/ILL/
  absorption-algorithms.md