

# **areaDetector Workshop(?)**

**EPICS Collaboration Meeting  
ITER, June. 2019**

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Diamond Light Source**



# Mark couldn't make it...

- **Fortunately his slides could...**
- **Introduction**
  - **Collaboration**
  - **Workflow**
- **areaDetector overview**
  - **Architecture, goals**
  - **Drivers**
  - **Plugins**
  - **Viewers**
- **Changes, new features and future**
  - **Version 3.x news**
  - **PVAccess**
  - **Codec/compression**
  - **Future**

# How to pitch these talks?

- **Who has worked with areaDetector at all?**
- **With areaDetector 2.x?**
  - i.e. on github
- **With areaDetector 3.x?**
  - Latest, bleeding edge...

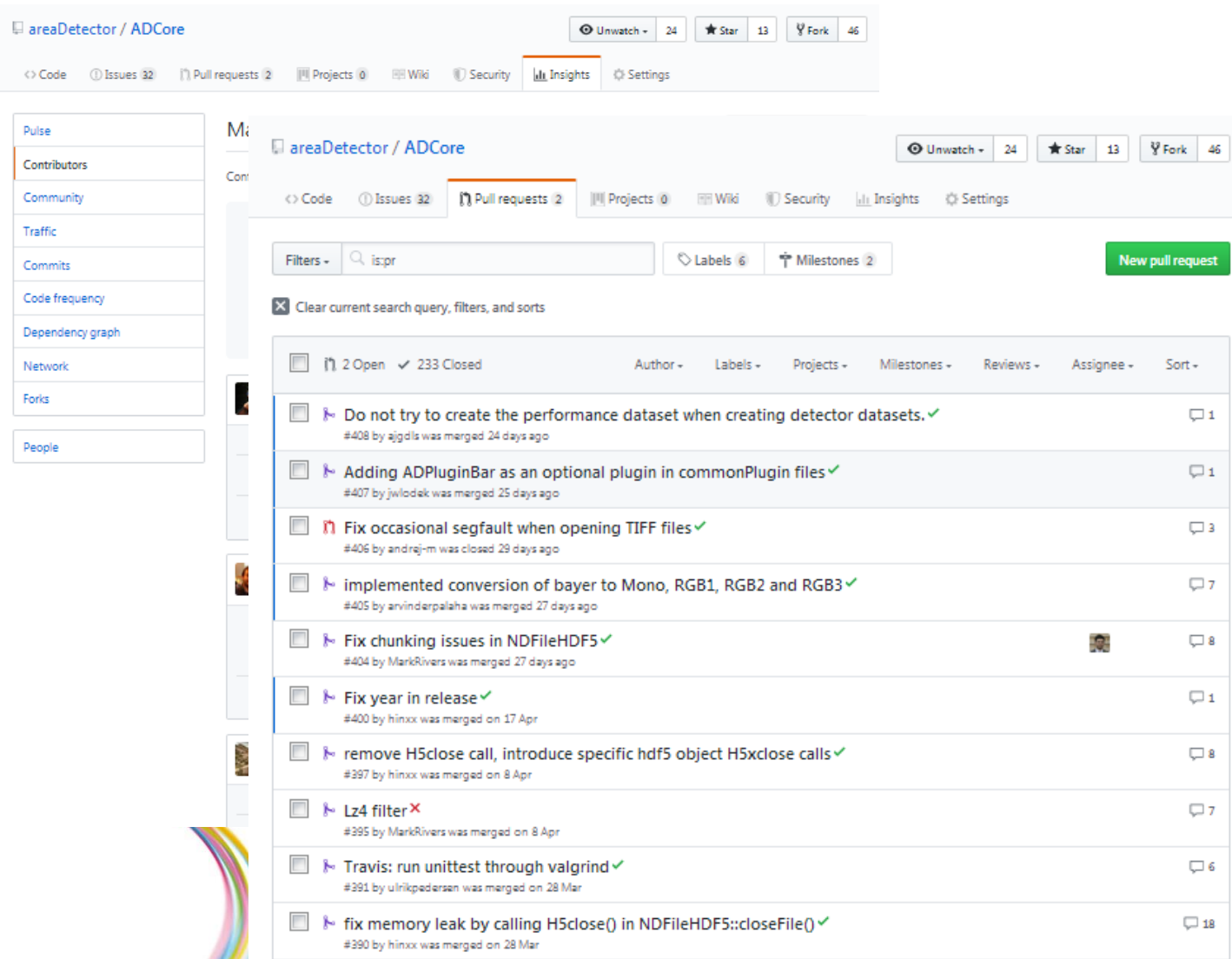
# areaDetector Collaboration

- **areaDetector Working Group established in 2013**
  - WG co-chaired by Mark Rivers and Ulrik Pedersen
  - Regular video conference meetings every 1,2,3 months for a couple of years
  - Workshops such as this one!
- **Source code moved to github**
  - Drivers and framework split up into separate repos
    - ADCore
    - ADSupport
    - ADSimDetector
    - Etc

# areaDetector Collaboration

- **Collaborative workflow: Github Pull Request**
  - **Developer:** Fork repo, clone, branch, code, test, push, issue Pull Request
  - **Collaborators:** review, discuss
  - **Maintainers (typically Mark):** merge
- **Discuss fixes and features: raise issue on ADCore or other relevant repo**
- **Ask for help: Tech-talk mailing list**
  - **Mark does an amazing job there!!!**

# areaDetector Collaboration



The screenshot shows the GitHub interface for the repository 'areaDetector / ADCore'. The 'Pull requests' tab is active, displaying a list of 2 open pull requests and 233 closed ones. The search filter is set to 'is:pr'. The pull requests list includes:

- #408: Do not try to create the performance dataset when creating detector datasets. ✓ (merged 24 days ago)
- #407: Adding ADPluginBar as an optional plugin in commonPlugin files ✓ (merged 25 days ago)
- #406: Fix occasional segfault when opening TIFF files ✓ (closed 29 days ago)
- #405: implemented conversion of bayer to Mono, RGB1, RGB2 and RGB3 ✓ (merged 27 days ago)
- #404: Fix chunking issues in NDFileHDF5 ✓ (merged 27 days ago)
- #400: Fix year in release ✓ (merged on 17 Apr)
- #397: remove H5close call, introduce specific hdf5 object H5xclose calls ✓ (merged on 8 Apr)
- #395: Lz4 filter ✗ (merged on 8 Apr)
- #391: Travis: run unittest through valgrind ✓ (merged on 28 Mar)
- #390: fix memory leak by calling H5close() in NDFileHDF5::closeFile() ✓ (merged on 28 Mar)