



# DIALS

## A BioStruct-X perspective

Data Integration and Analysis for  
Synchrotron and FEL  
crystallography



# What is BioStruct-X

- 4 yr EC grant to facilitate access to large facilities for European Scientists
- Principally provides funding for transnational access (TNA) to synchrotrons (MX, SAX, Imaging), protein production, crystallization platforms.
- Grant covers TNA and Joint Research Activity (JRAs)
- JRAs on
  - Data Analysis for SR and FELs
  - 3D X-ray Imaging
  - Integrated beamline environments - SAX – MX
  - Mammalian cell toolbox
- Project runs from Sept 2011 – Sept 2015
- 10 MEuro for TNA and JRAs
- ~900 k€ for our Work Package (WP6)



# The people

## Core framework and algorithms

- Graeme Winter
- **James Parkhurst**
- **Luis Fuentes-Montero**
  - Diamond Light Source
- David Waterman
  - CCP4
- Andrew Leslie
- Garib Murshudov
- Phil Evans
  - MRC LMB Cambridge
- Gleb Bourenkov
  - EMBL Hamburg

## XFEL, Visualization, Detector Physics

- Tom White
- **Chuck Yoon**
- Henry Chapman
- Adrian Mancuso
  - CFEL/XFEL
- Sandor Brockhauser
- **Gabor Naray**
  - EMBL Grenoble
- Marcus Mueller
- Meitian Wang
- **Rita Giordani**
  - Dectris/SLS

# Meetings

- DIALS meetings
  - Driving and steering the development of the framework and first release
- Algorithm Camps
  - To look ahead to the development of more advanced modules to plugin to DIALS framework