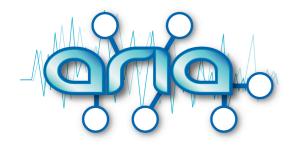
NMR structure calculation with ARIA

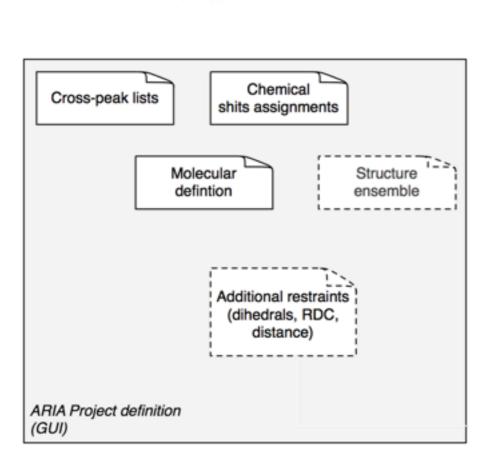
Practical course 2016

Michael Nilges

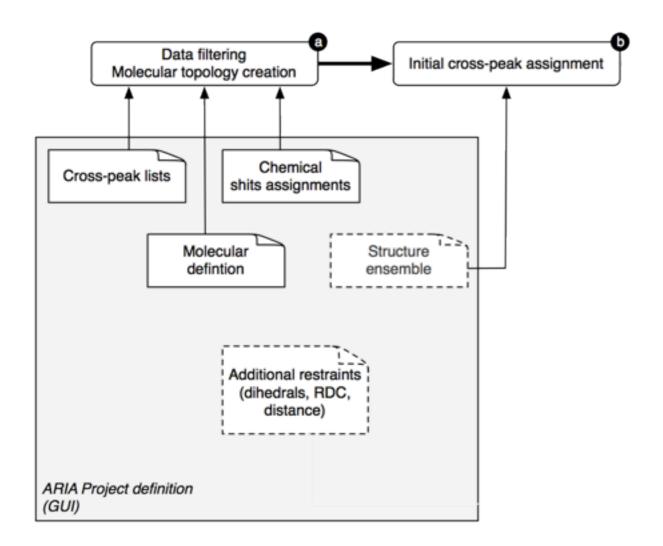


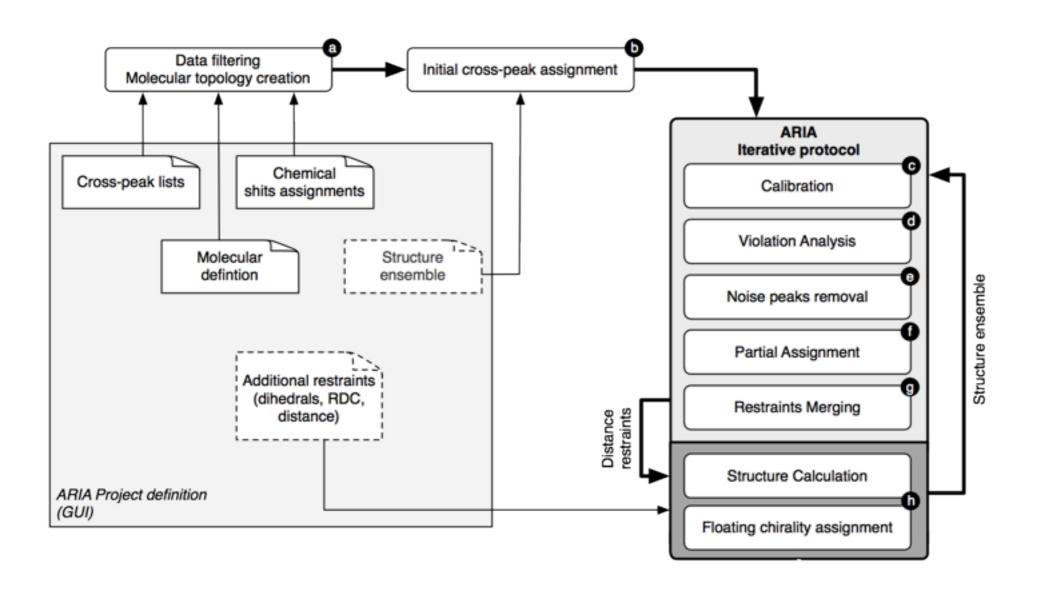


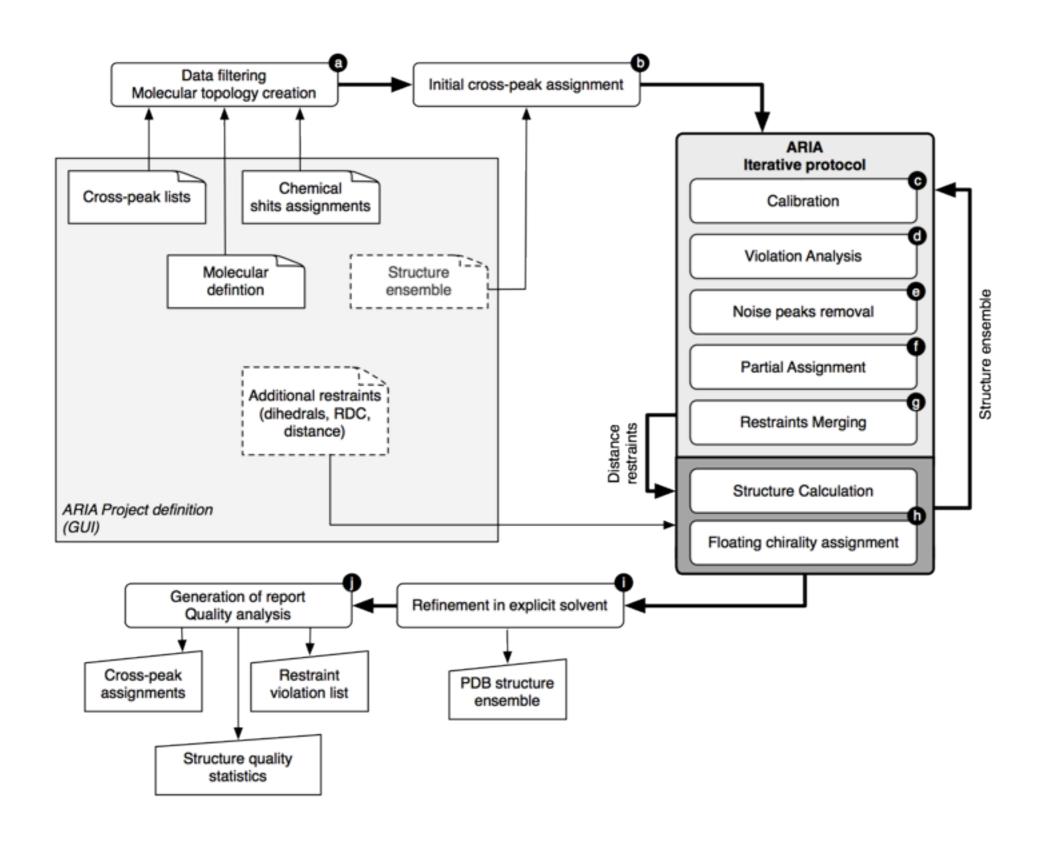
ARIA protocol: step I



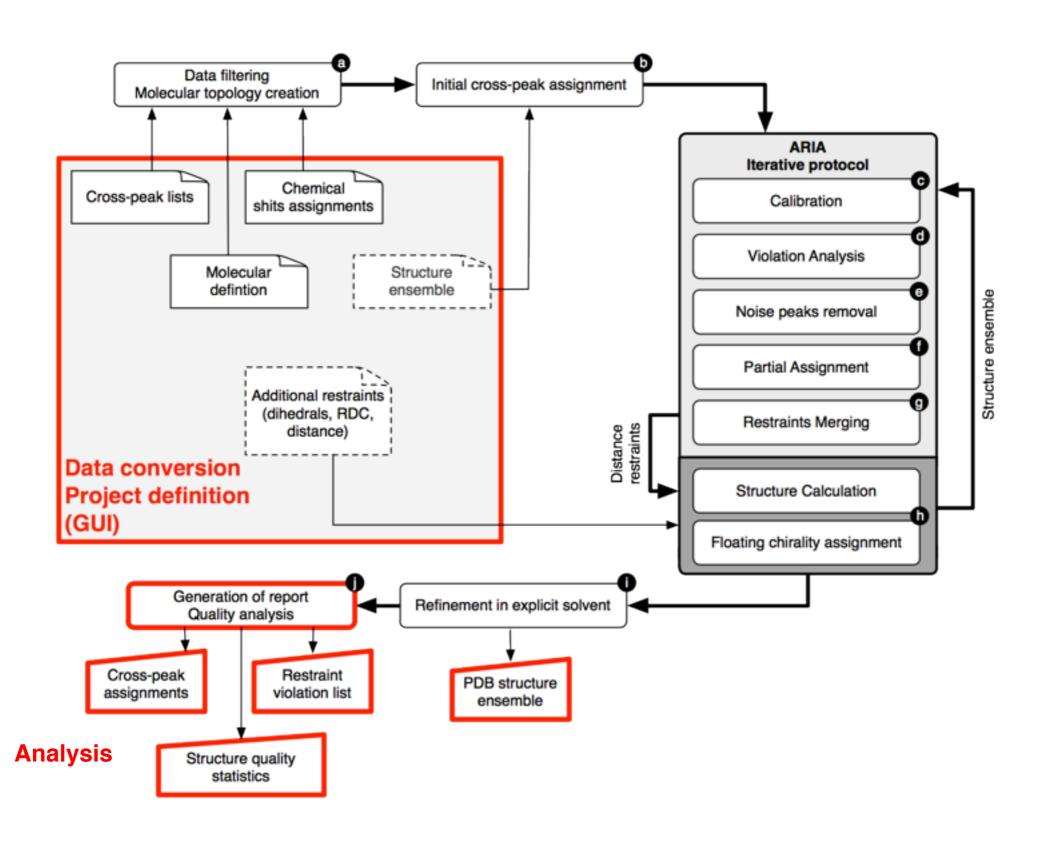
ARIA protocol: step 2

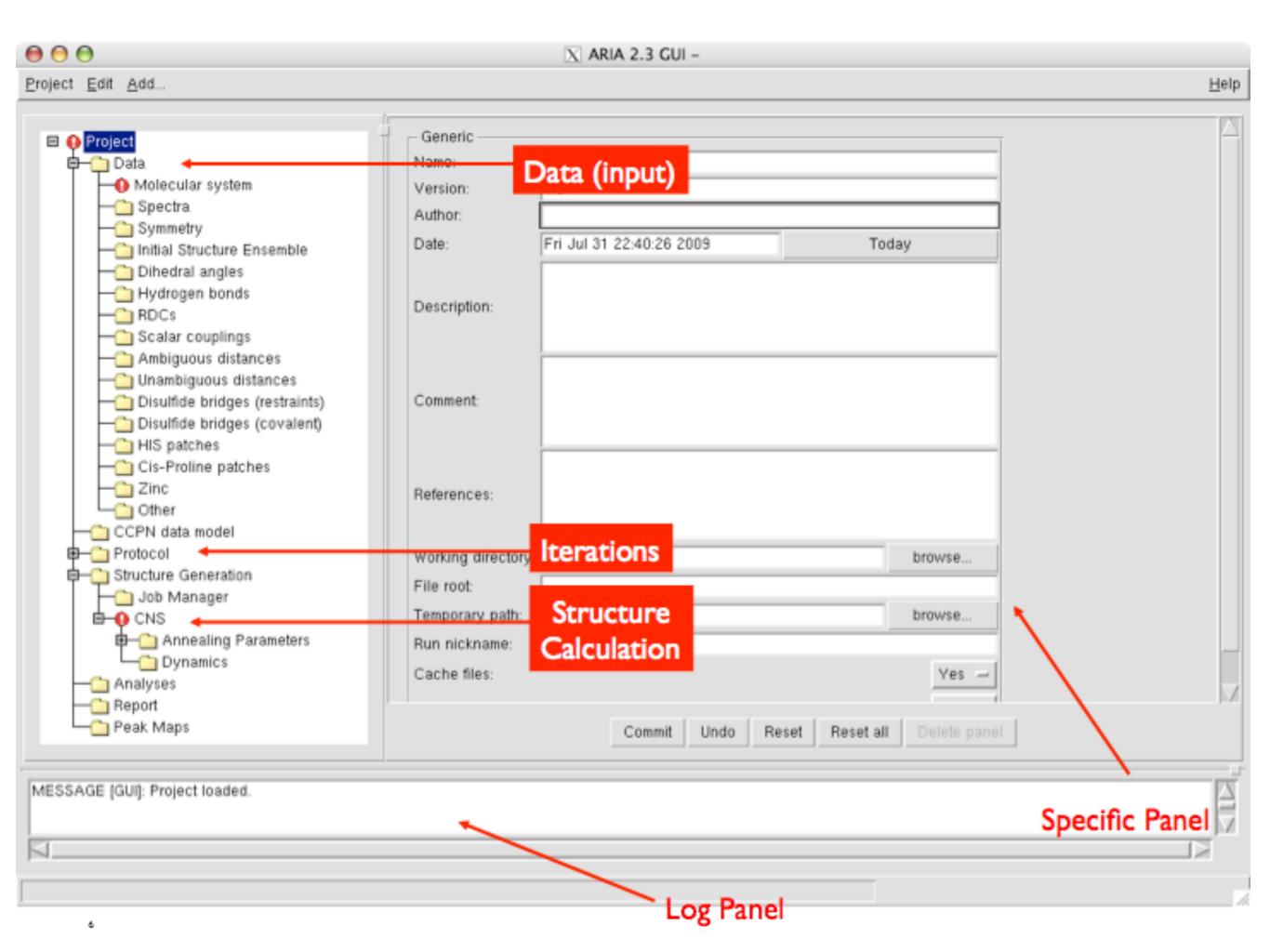






ARIA protocol: today





ARIA commands

Data (aria2 --convert conversion.xml) conversion aria2 -g run1.xml **Project** setup aria2 -s run1.xml Calculation aria2 run1.xml Results analysis

Practical

- Calculation of tudor domain (56 res.)
- ARIA 2.3 / CNS 1.2 (installed)
- Available data (flat files or CCPN project):
 - Sequence
 - I3C and I5N NOESY peak-lists
 - Chemical shifts assignments
 - Restraints (hydrogen bonds, torsion angles from coupling constants, RDC)

A. Conversion of data from Xeasy format to ARIA XML format

OR



B. CCPN Project

- 1. Setup environment (repeat for new terminals)
- 2. Step-by-step protocol
- 3. mostly pre-calculated to give more time for analysis

point of interest

4. advanced analysis (if time allows it)