Nucleic Acid Crystallography

Structure Solution

How can we estimate the phase of our reflections?
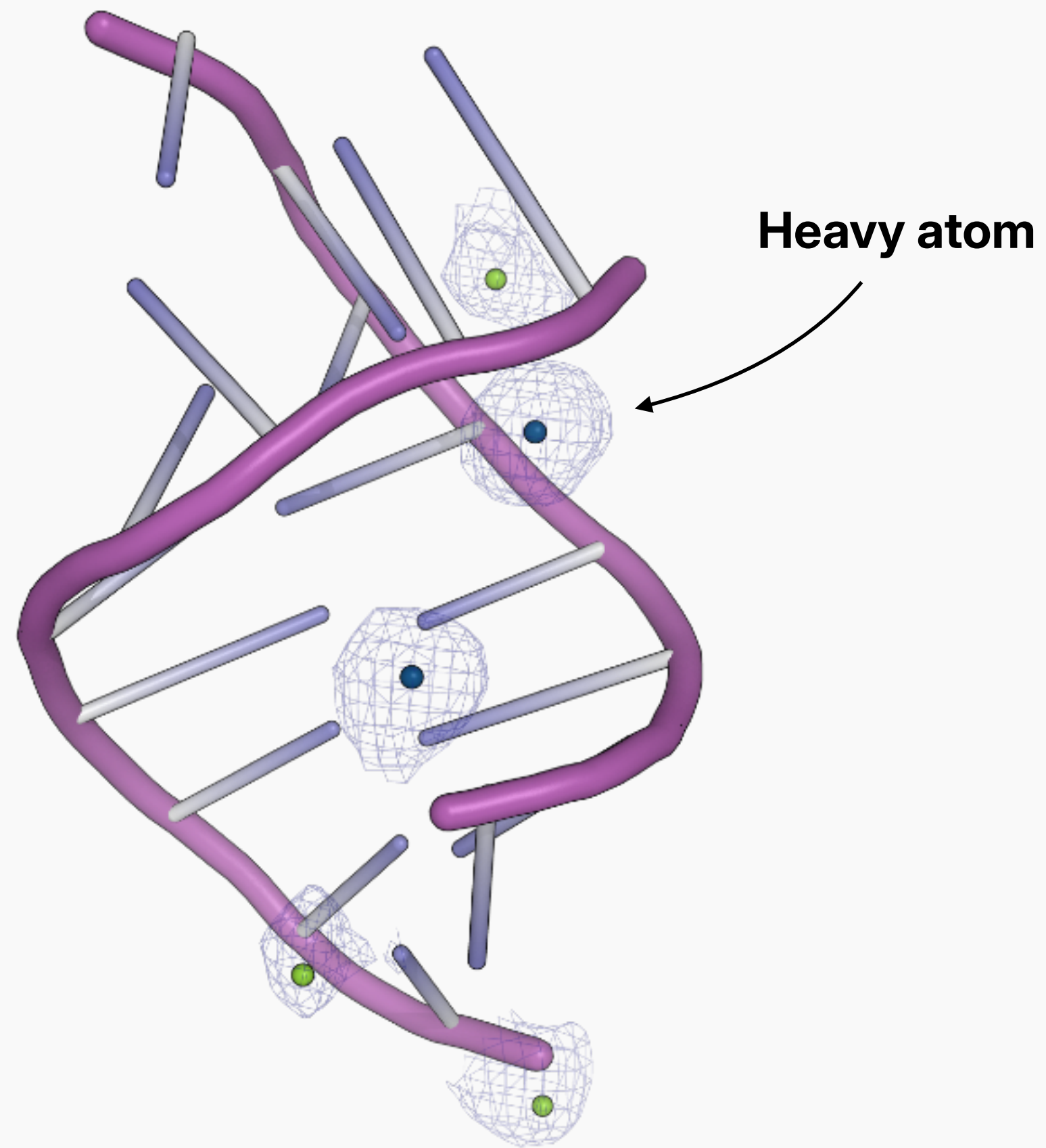
Use prior knowledge

Use physical properties
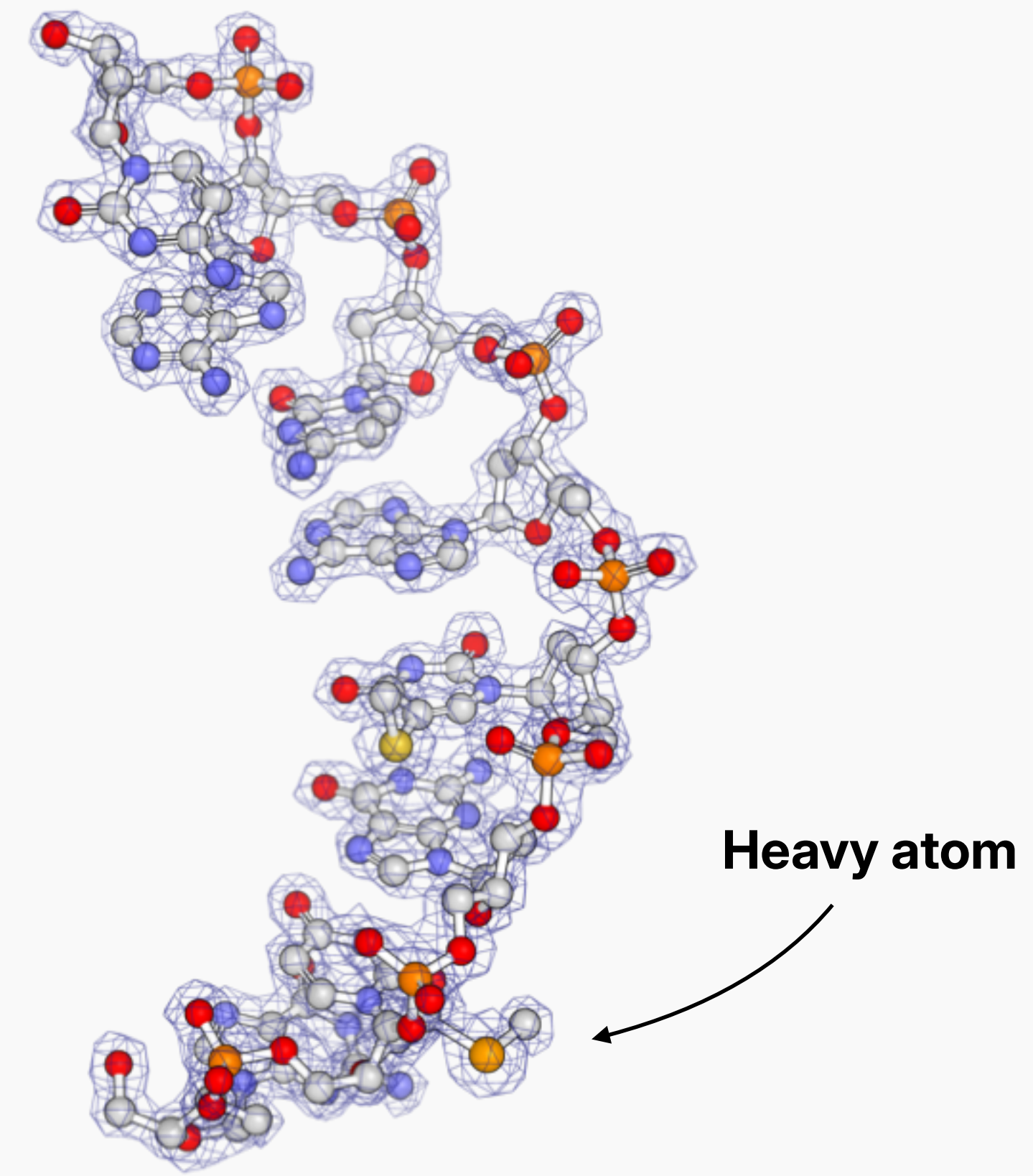
Estimate the phase of each reflection by using information from heavy atoms

Nucleic Acid Crystallography
Experimental Phasing

Heavy atom

Ir soaked RNA
PDB Code: 8XZE
Partial Model

Heavy atom

5-SMe Derivatised DNA
PDB Code: 3HG8