Dual-space methods: a modern take on overcoming the phase problem!

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Modern methods of structure solution provide, much like their Direct Methods predecessor, a hole-in-one answer to the phase problem. Charge-flipping and Intrinsic Phasing rely on iterative alteration of real and reciprocal space information to provide a solution. The nature of these methods yields an almost complete model. However, the question is asked: how do they do it? Is it Magic? No! It is Science! This presentation aims to break down some of the mystique of these routines providing an answer to that very question.