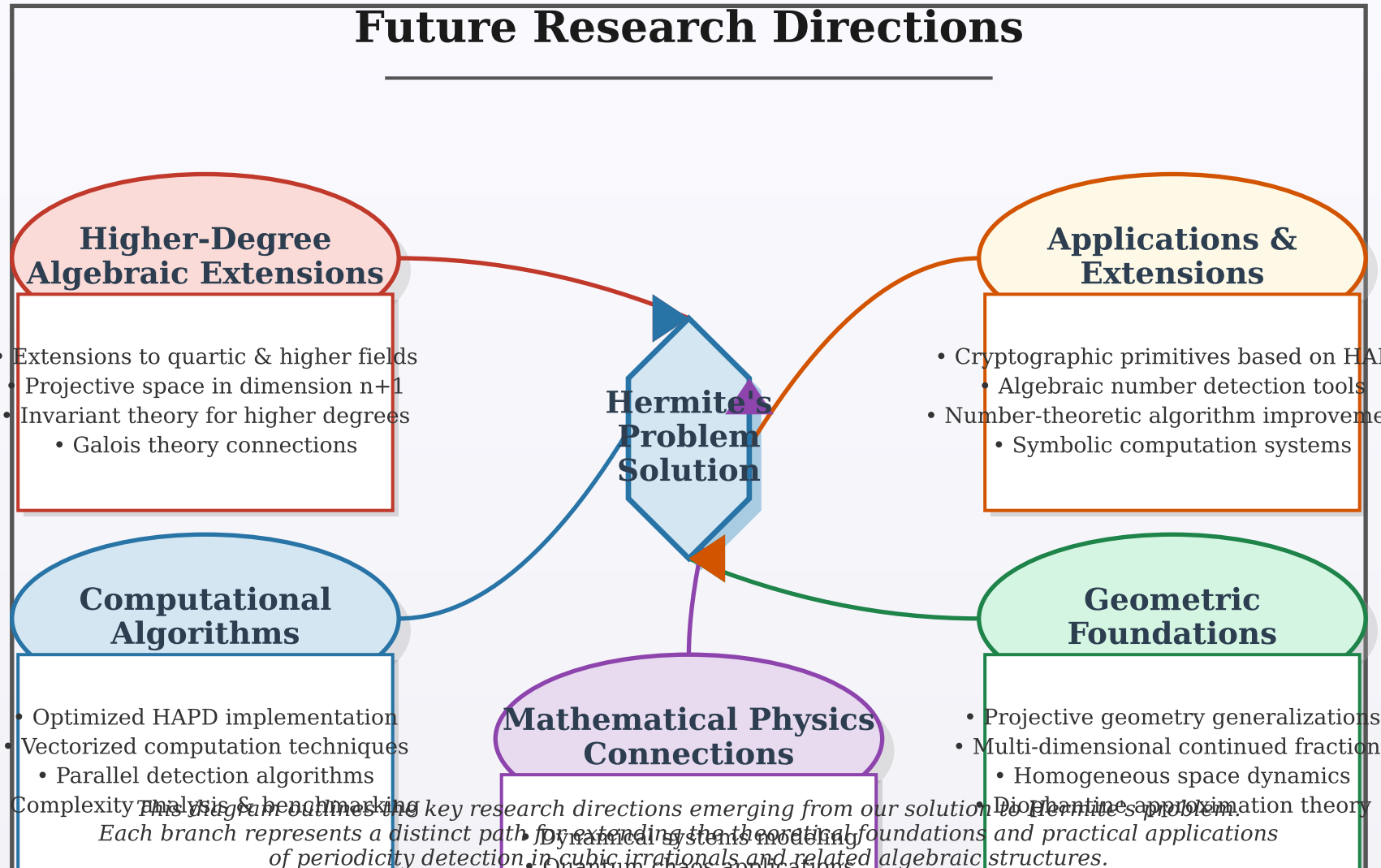
Future Research Directions



This diagram outlines the key research directions emerging from our solution to Hermite's problem. Each branch represents a distinct path for extending the theoretical foundations and practical applications of periodicity detection in cubic irrationals and related algebraic structures.