

Algorithm Comparison

Feature	HAPD Algorithm	Modified \sin^2 Algorithm
Cubic Irrationals	All cubic irrationals	All cubic irrationals
Complex Conjugate Roots	Yes (projective space)	Yes (complex plane)
Approach	Non-subtractive	Subtractive
Mathematical Basis	Projective geometry	Complex analysis
Floor Function	Standard floor	Phase-preserving floor
Implementation Complexity	Moderate	Complex