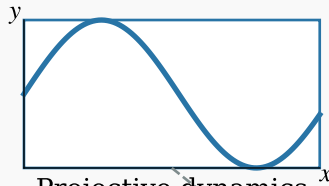


Complementary Solutions to Hermite's Problem

HAPD Algorithm

Non-subtractive approach

- Projective space \mathbb{P}^2
- Matrix-based approach
- Standard floor function



Projective dynamics

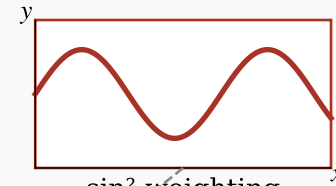
complementary methods



Modified \sin^2 Algorithm

Subtractive approach

- Complex plane analysis
- Transcendental terms
- Phase-preserving floor



\sin^2 -weighting

Common Properties

- Periodic precisely for cubic numbers
- Handle complex conjugate roots