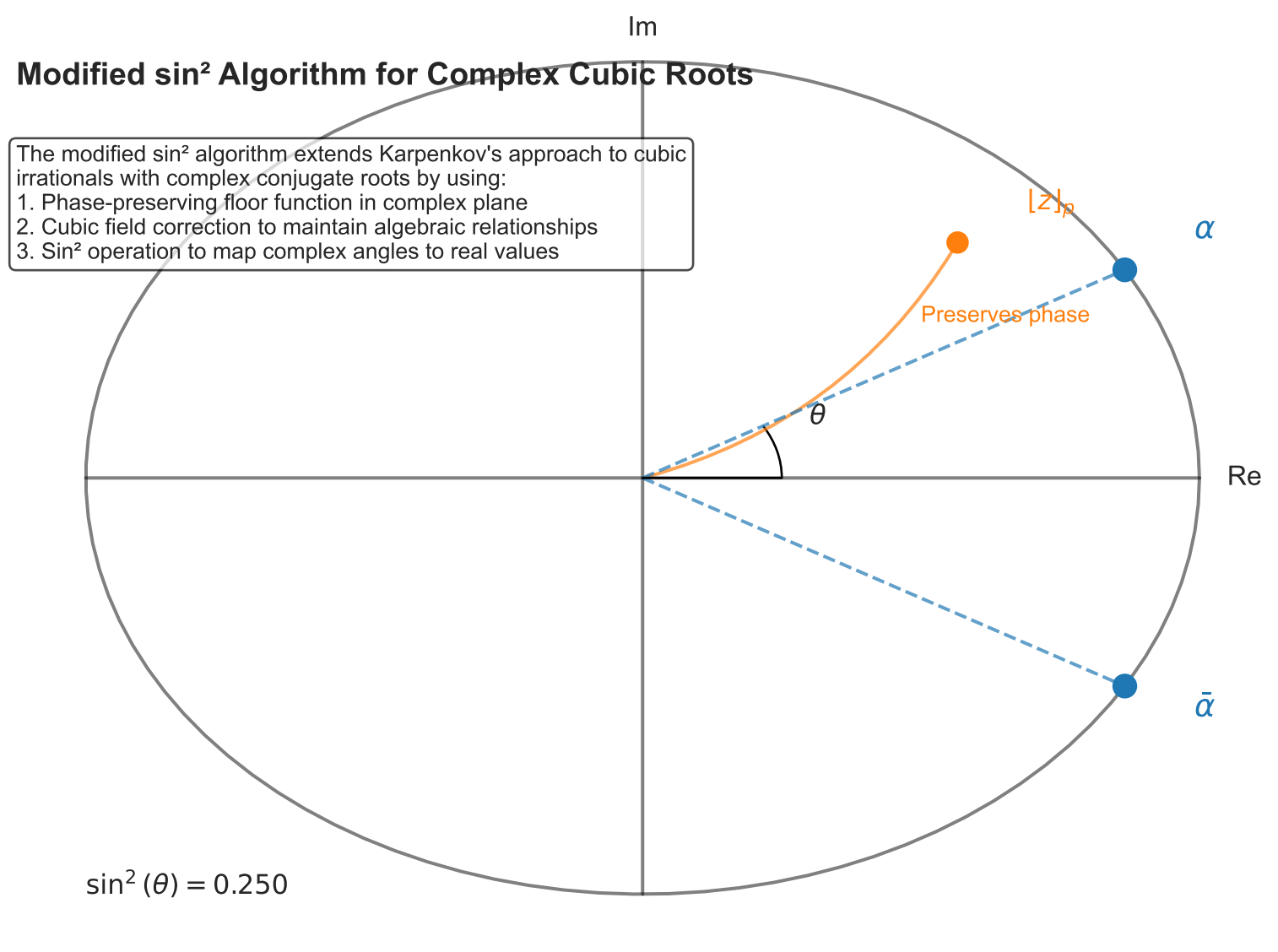
Im
Modified sin² Algorithm for Complex Cubic Roots
The modified sin² algorithm extends Karpenkov's approach to cubic irrationals with complex conjugate roots by using:
1. Phase-preserving floor function in complex plane
2. Cubic field correction to maintain algebraic relationships
3. Sin² operation to map complex angles to real values
$\lfloor z \rfloor_p$
α
Preserves phase
θ
Re
$\bar{\alpha}$
$\sin^2(\theta) = 0.250$