entry file entry function next function down next function downext functio	ow severity	figure title / tablet problematic fund notes
run_phi_resonan run_phi_analysis run_comparative_ar run_state_evolution	high	applies scaling_factor twice, once when constructing the pulse, and once when storing the hamiltonian Fractal Dimensio PhiResonant pulse applies phi in 3 places Fractal Dimensio PhiResonant pulse is based on both hardcoded phi and scaling_factor phi_resonant_an phi_resonant_an phi_resonant_an an the "pulses" aren't applied as pulses, but at the beginning before doing simulate_evolution phi_resonant_surion_state_evolutistored hamiltonian is not based on the H_effective used to do the state evolution
run_phi_resonan run_phi_analysis run_comparative_ar run_state_evoluti analyze_fractal_properties	none	theoretical scaling function does not agree with text in config or app.py none analyze_fractal_theoretical scaling function is not used anywhere
run phi resonan run phi analysis run comparative arrun phi recursive evolution	high	Fractal Dimensio Fractal Dimensio purpose of function is to do the same thing as run_state_evolution with pulse_type == "PhiResonant". should either be removed to use run_state_evolution, or remove the PhiResonant pulse_type from run_state_evolution phi resonant an phi resonant an phi resonant jurinup hi recursive performs state evolution instead of using simulate_evolution.
run phi resonan run phi analysis run comparative arrun phi recursiv get phi recursive unitary	medium	Fractal Dimensio Fractal Dimensio phi resonant as un et phi recursiv mixes use of scaling factor and phi
phi_sensitive_d  phi_sensitive_d  compute_mulish  run_phi_resonan run_phi_analysis run_comparative_ar run_phi_recursiva analyze_phi_rescompute_phi_se	fra ser	Phi-Sensitive Wil phi sensitive dir Phi-Resonant Be compute, multifra phi resonant an compute, phi sei phi resonant_sui compute_phi_res these measures have mathematical definitions which do not include phi at all
run_evolution_ar run_evolution_ar run_state_evolution	high	FEntanglement E "Entanglement E "entanglement s FEntanglement S FEntanglement S FEntanglement C "Wavepacket Evo Wavepacket Evo PWavepacket Evo PWavepacket Sp Fractal Dimensio Fractal Dimensio Fractal Dimensio Fractal Dimensio Fractal Fractal Dimensio Fractal Theorem Company (Dimensio) Fractal Dimensio Fractal Dimensio Fractal Analysis I nu _state_evolut the "puises" aren't applied as puises, but at the beginning before doing simulate_evolution
enhanced phi a run enhanced p run phi analysis	high	run phi analysis see rows 2-6
enhanced phi airun enhanced piplot fractal dim vs recursion	high	dimension patterns are generated differently for each line (phi, unit, arb) instead of all being generated by the same algorithm  Fractal Dimensio plot fractal dim what IS a dimension pattern? they look to be arbitrarily scaled sin waves
plot_robustness_uni calculate_protection_metric	high	arbitrarily applies different perturbation near phi. shouldn't the perturbation depend directly on the hamiltonian or state? Topological Prote makes up protection if there's no energy gap Relative Advanta calculate_protect clamps protection value
create_parameter_tables	high	computational_cr phase_diagram_create_paramete hardcoded tables
enhance_energy_spectrum	high	function begins by looking for energy_spectrum.png, which is never created enhanced_energ enhance_energy, annotations applied arbitrarily instead of looking for self-similarity, there's even a note there already
enhance_wavefunct create_wavefunction_profile	high	profile is arbitrarily generated instead of calculated from state  Wavefunction Pri create_wavefunc text dimension is hardcoded

generating file	figure / table title	image / csv name	issue severity
run_phi_resonant_analysis	Fractal Dimension Comparison	phi_resonant_comparison.png	high
	Fractal Dimension Difference (Phi-Sensi	phi_resonant_comparison.png	high
	Phi-Sensitive Winding Number	phi_resonant_comparison.png	high
	Phi-Resonant Berry Phase	phi_resonant_comparison.png	high
		phi_resonant_analysis.csv	high
		phi_resonant_summary.csv	high
run_evolution_analysis	all	all	high
enhanced_phi_analysis	Fractal Dimension vs. Recursion Depth	fractal_dim_vs_recursion.png	high
	Topological Protection Under Perturbation	robustness_under_perturbations.p	high
	Relative Advantage of φ-Scaling Under F	protection_ratio.png	high
		parameter_overview.csv	none
		computational_complexity.csv	high
		phase_diagram_summary.csv	high
	DNE	enhanced_energy_spectrum.png	high
	Wavefunction Profile with φ-Scaled Self-	enhanced_wavefunction_profile.p	high