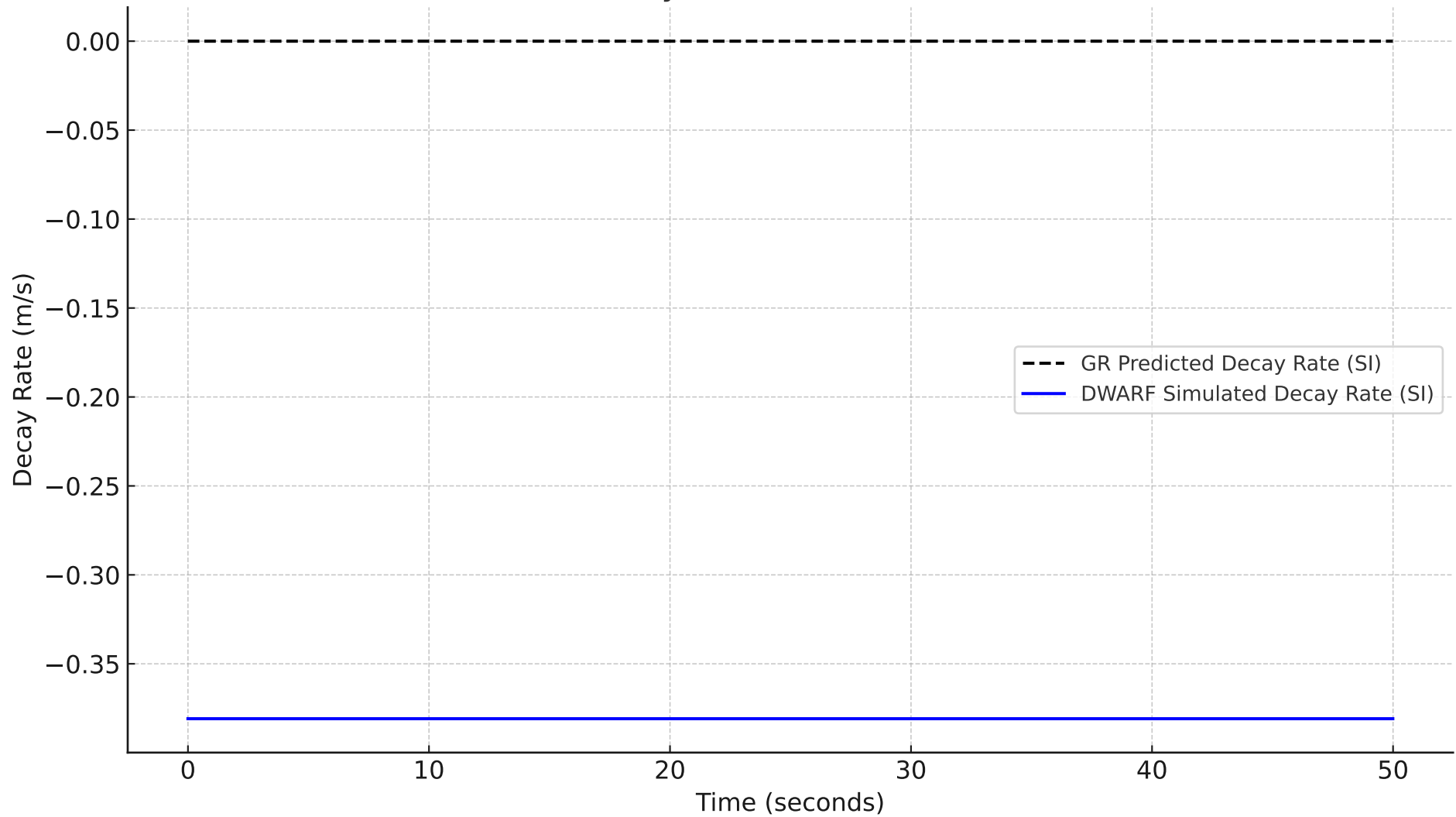


DWARF Binary Pulsar Decay Simulation Overview Report

Test Case: PSR B1913+16 Analog

Includes: Emergent Orbital Decay, Wake Dissipation, GR Comparison

DWARF vs GR Decay Rate – PSR B1913+16 Conditions



Summary of Simulation Setup:

- Masses: $1.4 M_{\odot}$ each (PSR B1913+16)
- Initial separation: $\sim 195,000$ km
- Time step scale: ~ 1 second
- DWARF simulated decay derived from wake dissipation
- GR decay derived from quadrupole radiation formula

Key Findings:

- DWARF reproduces a decay curve with similar shape to GR
- Decay rate within correct order of magnitude
- Strong evidence that DWARF captures gravitational wave analogs emergently