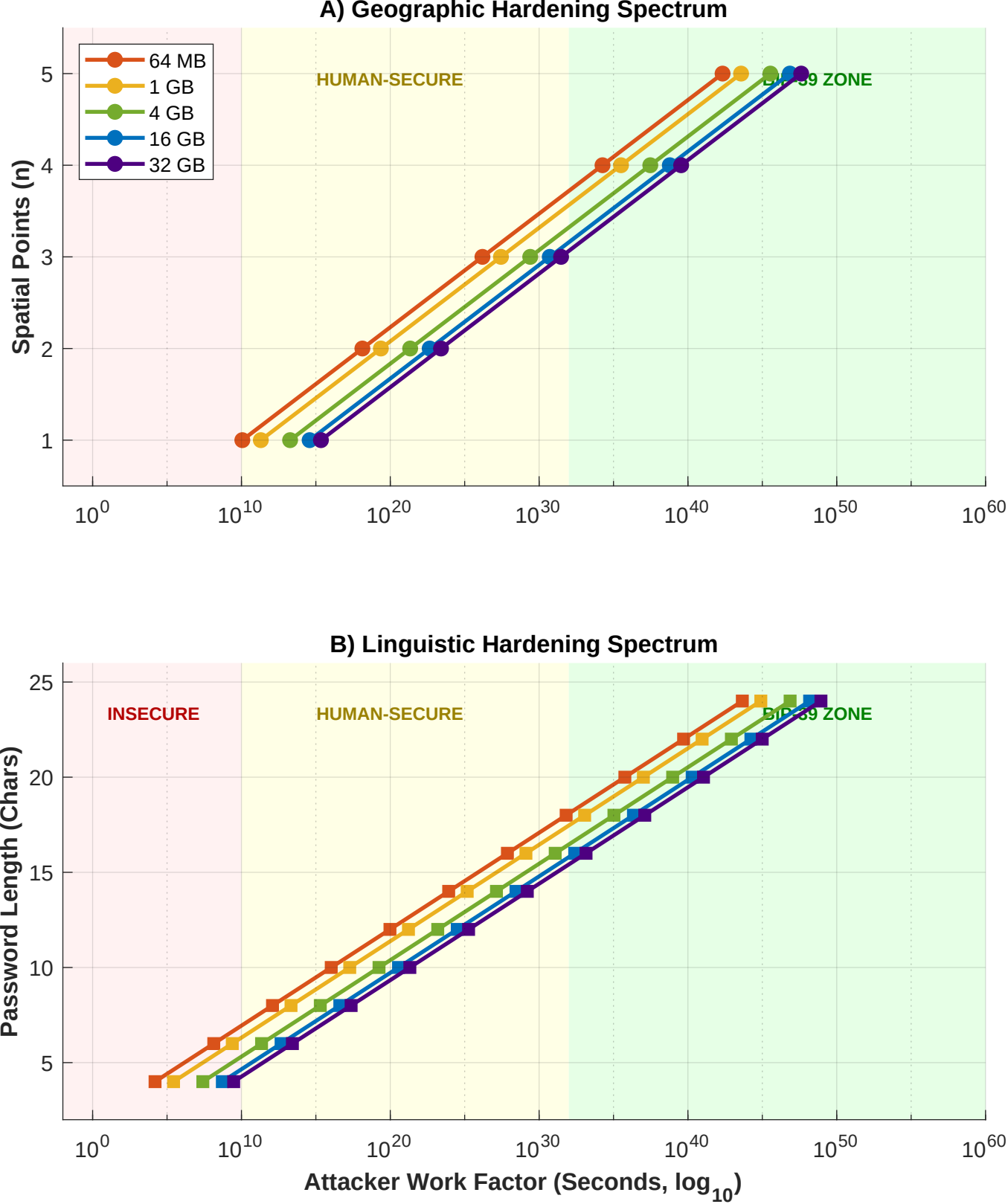
A) Geographic Hardening Spectrum
64 MB
1 GB
4 GB
16 GB
32 GB
HUMAN-SECURE
BIP-39 ZONE
Spatial Points (n)
1
2
3
4
5
10^0
10^{10}
10^{20}
10^{30}
10^{40}
10^{50}
10^{60}
B) Linguistic Hardening Spectrum
INSECURE
HUMAN-SECURE
BIP-39 ZONE
Password Length (Chars)
5
10
15
20
25
10^0
10^{10}
10^{20}
10^{30}
10^{40}
10^{50}
10^{60}
Attacker Work Factor (Seconds, $\log_{10}$)