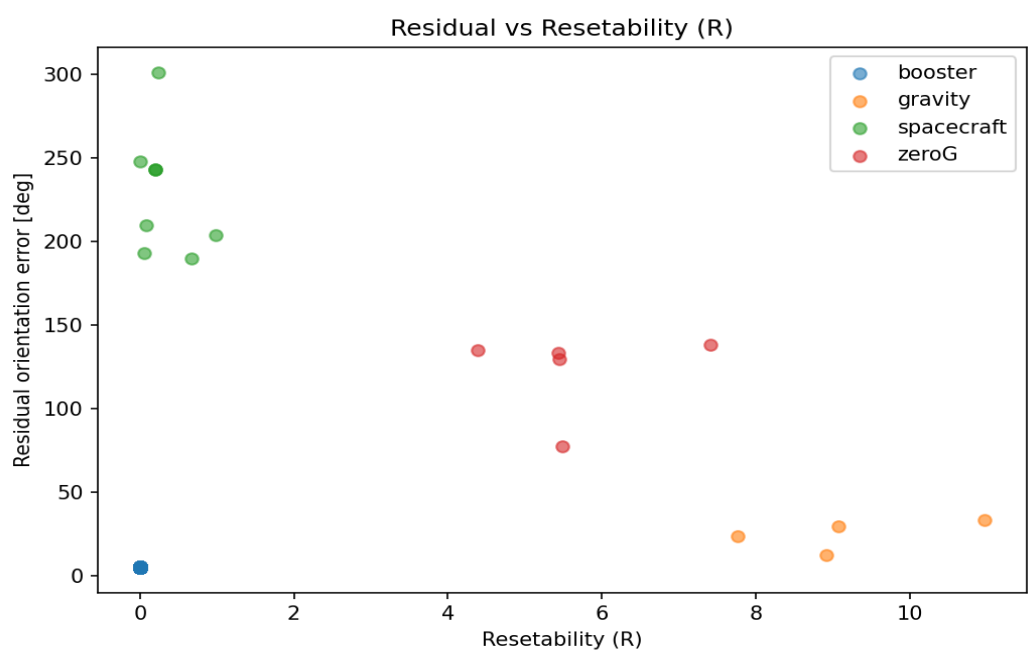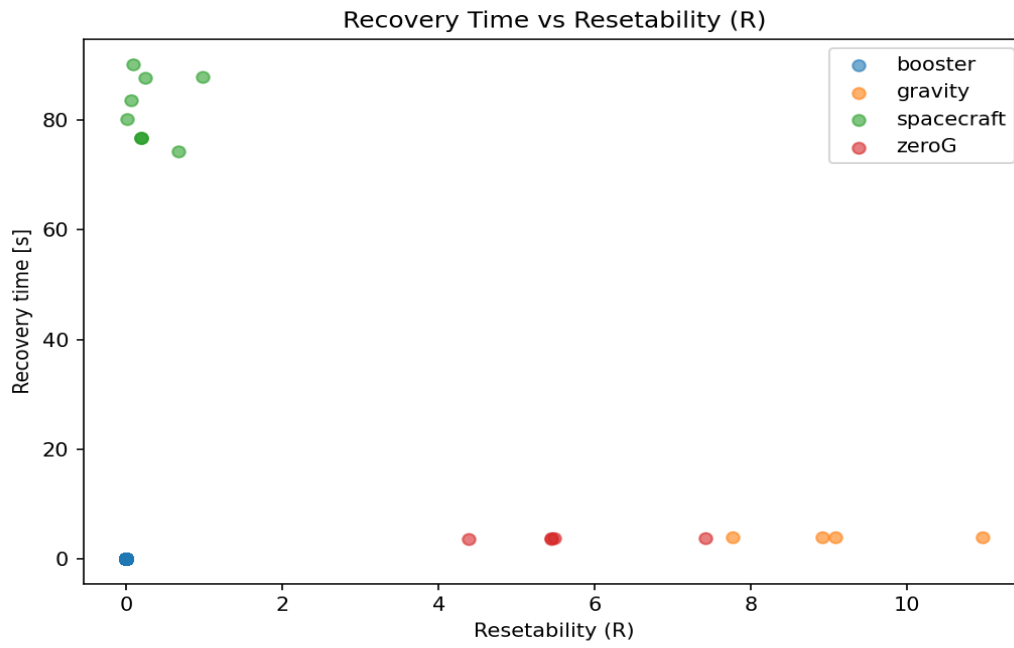# Validation of the Resetability (R) Concept

This report aggregates simulation outputs across domains (robotics: gravity & zero-G, spacecraft, booster) and evaluates how the Resetability metric (R) correlates with residual attitude error and recovery time.

Domain	Corr(R,Residual)	Corr(R,RecoveryTime)
booster	0.319	0.000
gravity	0.547	0.000
spacecraft	-0.363	0.055
zeroG	0.133	0.764

Residual vs R

Residual vs Resetability (R)

Recovery Time vs R

Recovery Time vs Resetability (R)

Interpretation: gravity-bound runs often show strong R–residual correlation; zero-G/spacecraft emphasize timing sensitivity (λ-scaled sequences). Booster Monte Carlo provides population-level behavior.

Generated automatically by the R–SO(3) validation pipeline.