

Table 3 | Identifiability summary (curvature, correlations, and noise stability). Curvature proxy computed from finite-difference Hessian in bounded u -space at θ classical with $\Delta=0.08$. Noise stability and correlations from 18 refits at 2% complex Gaussian noise (scaled by $|Z|$) using bounded COBYLA (maxiter=55).

Parameter	Space (u mapping)	Curvature proxy $\kappa_i = 0.5 H_i \Delta^2$ ($\Delta=0.08$)	Curvature rank (high=stable)	CV% at 2% noise	CV rank (low=stable)	Dominant correlation partner	Dominant Pearson r (2% noise)	Identifiability
R_s	log	14.06	6	3.40	7	α_2	-0.854	Poorly-identifiable
L	log	0.9494	7	2.79	6	R_s	0.631	Poorly-identifiable
R_{ct}	log	612.6	3	1.12	4	L	0.625	Well-identifiable
Q_1	log	109.0	4	2.11	5	α_1	-0.406	Well-identifiable
α_1	linear	45.76	5	0.55	3	R_s	0.633	Poorly-identifiable
Q_2	log	58430	1	0.39	2	L	-0.539	Well-identifiable
α_2	linear	5053	2	0.11	1	R_s	-0.854	Poorly-identifiable

Dominant correlation pairs (2% noise, top-6 by $|r|$):

1. R_s - α_2 : $r = -0.854$
2. R_s - α_2 : $r = 0.633$
3. R_s - L : $r = 0.631$
4. L - R_{ct} : $r = 0.625$
5. R_{ct} - α_1 : $r = 0.613$
6. L - α_2 : $r = -0.586$