

NIST Decision Tree Report

Summary

Include	Laboratory	Result	Uncertainty	DegreesOfFreedom
TRUE	IRMM	34.30	1.03	60
TRUE	KRISS	32.90	0.69	4
TRUE	NARL	34.53	0.83	18
TRUE	NIST	32.42	0.29	2
TRUE	NMIJ	31.90	0.40	13
TRUE	NRC	35.80	0.38	60

Date: 2022-04-23

Selected Procedure: Hierarchical Gauss-Gauss

Consensus estimate: 33.62

Standard uncertainty: 0.7986

95% coverage interval: (32.02, 35.21)

Dark uncertainty (tau): 1.687

Tau posterior 0.025 and 0.975 quantiles: (0.8375,3.379)

Decision Tree Hypothesis test results

Cochran's test for Homogeneity:

p-value: $p < 0.001$

$Q = 68.22$ (Reference Distribution: Chi-Square with 5 Degrees of Freedom)

tau est. = 1.711

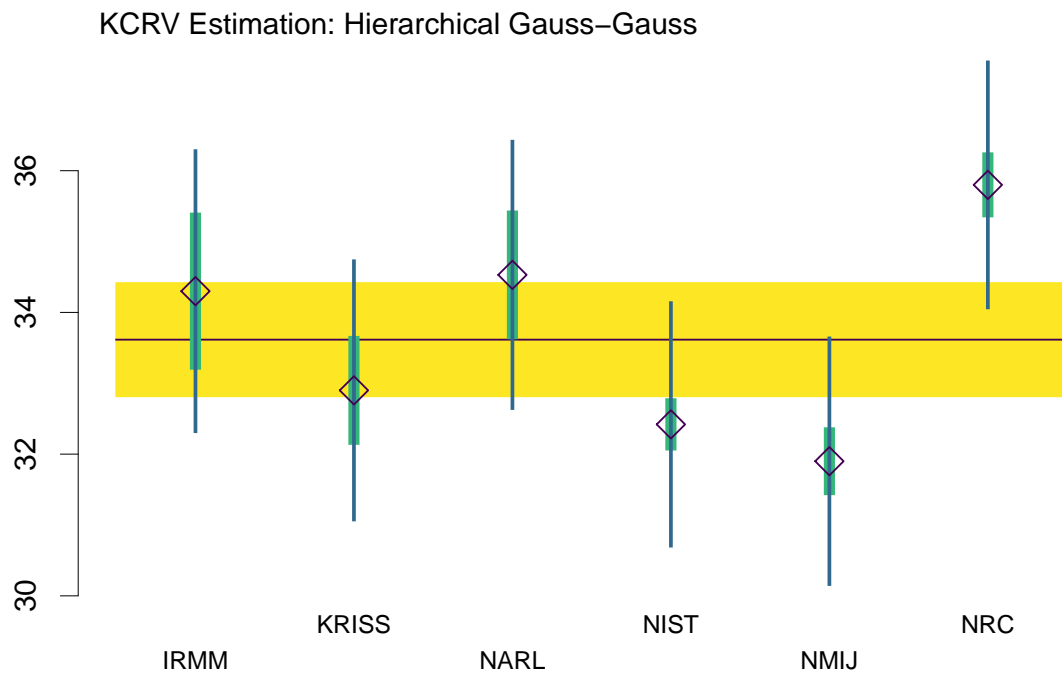
tau/median(x) = 0.05093

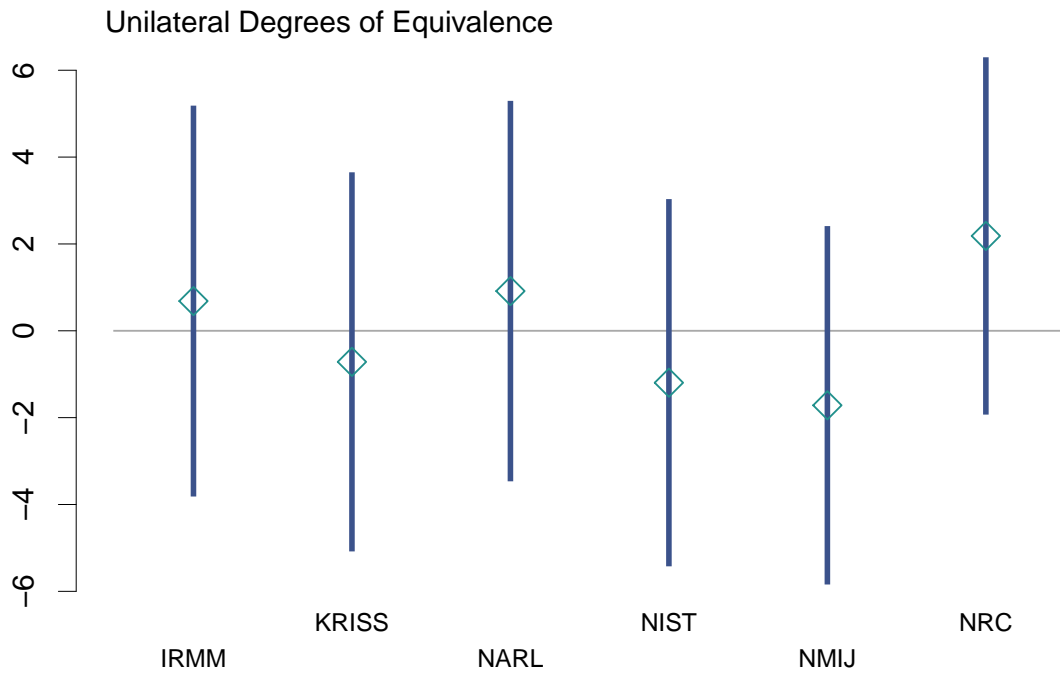
tau/median(u) = 3.14

Shapiro-Wilk test for Normality: $p = 0.5301$

Miao-Gel-Gastwirth test of Symmetry: $p = 0.939$

Plots





Lab		DoE.x	DoE.U95	DoE.Lwr	DoE.Upr
IRMM	IRMM	0.6844586	4.479260	-3.752113	5.121030
KRISS	KRISS	-0.7155414	4.313410	-5.016582	3.585499
NARL	NARL	0.9144586	4.330832	-3.401740	5.230657
NIST	NIST	-1.1955414	4.155344	-5.359516	2.968433
NMIJ	NMIJ	-1.7155414	4.052808	-5.778342	2.347259
NRC	NRC	2.1844586	4.047645	-1.865706	6.234623