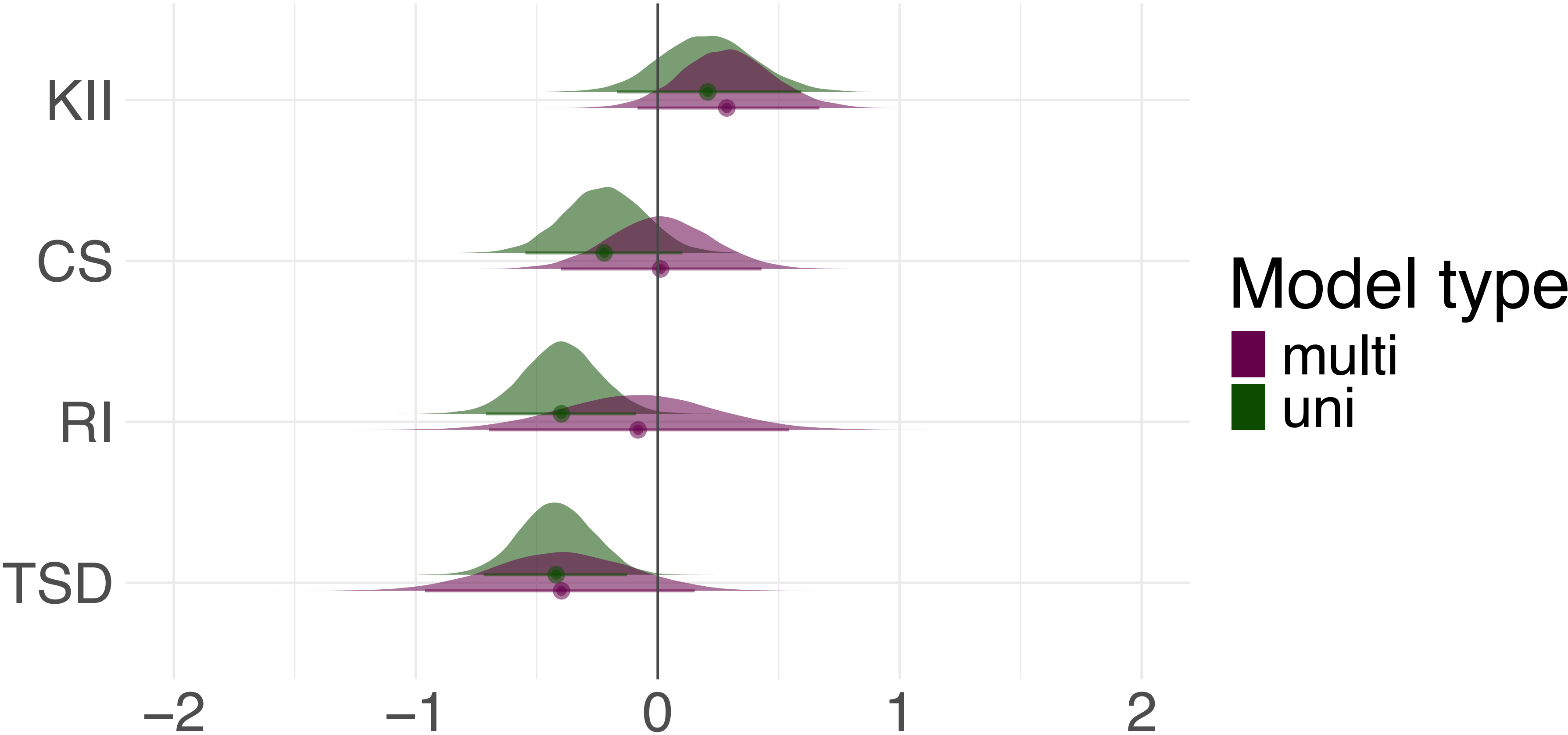

















Hypothesis tests

Predictors of 3PP Kin



Preregistered Predictions of Punishment Types by Socioecological Predictors

Predictor	2PP	3PP	3PP-General	3PP-Partner	3PP-Kin
Resource Intensification (RI)	↓  (uni)	↑ 	↑ 	↑ 	—
Technological & Social Differentiation (TSD)	↓  (uni)	↑ 	↑  (uni)	↑ 	—
Kinship Intensity Index (KII)	↑ 	↓ 	—	—	↑  (multi)
Community Size	↓  (uni)	↑ 	↑ 	↑ 	—

Legend:

↑ = Positive prediction

↓ = Negative prediction

— = Unspecified

 = Supported (90% PDI != 0)

 = Moderately supported (80% PDI != 0)

 = Not supported