Comparison of alternative kriging models

	Matern 5/2	Matern 3/2	Gaussian	exponent.	power exp.
Q2 constant trend	0.7571	0.7236	0.7899	0.5803	0.7254
Q2 1st order poly. trend	0.8072	0.6844	0.7058	0.6674	0.6717
RMSE constant trend	0.0521	0.0521	0.0521	0.0521	0.0521
RMSE 1st order poly. trend	0.0204	0.0204	0.0204	0.0204	0.0204
MAE constant trend	0.0464	0.0464	0.0464	0.0464	0.0464
MAE 1st order poly. trend	0.0147	0.0147	0.0147	0.0147	0.0147
RMA constant trend	1.9846	1.9846	1.9846	1.9846	1.9846
RMA 1st order poly. trend	0.9033	0.9033	0.9033	0.9033	0.9033

Q2: cross validation Q2 (higher is better) RMSE/MAE/RMA: external validation RMSE/MAE/RMA (lower is better)

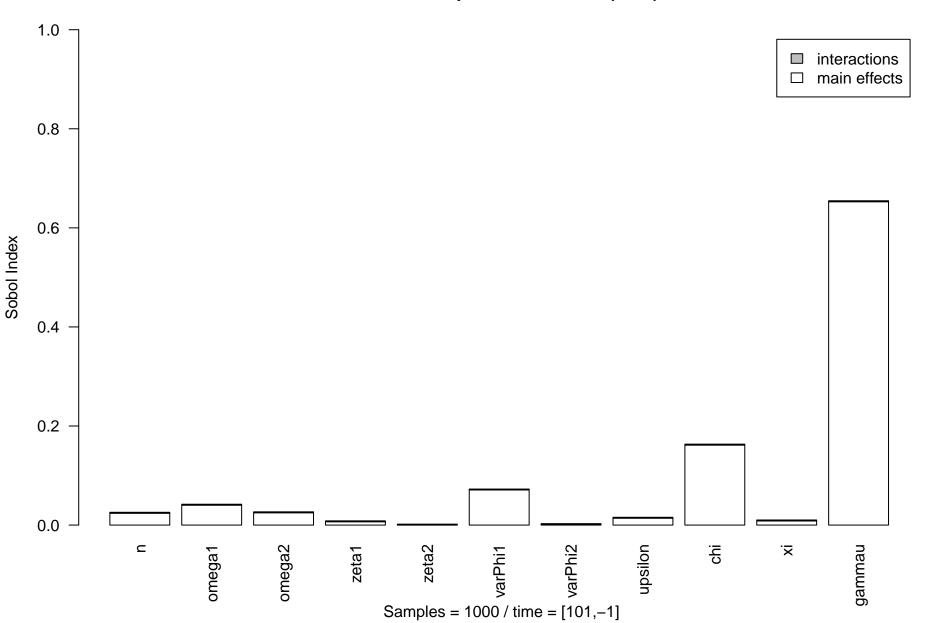
Kriging meta-model estimation (standardized)

trend(intercept)	0.094	Trend specification	1st order poly.
trend(inclination)	-0.030	Correlation function	Matern 5/2
theta(n)	1.152	Cross-sample Q2	0.807
theta(omega1)	0.063	External RMSE	0.020
theta(omega2)	0.063	External MAE	0.015
theta(zeta1)	1.017	External RMA	0.903
theta(zeta2)	0.379	DoE samples	65
theta(varPhi1)	0.456	External samples	10
theta(varPhi2)	1.048		
theta(upsilon)	0.819		
theta(chi)	1.382		
theta(xi)	0.122		
theta(gammau)	1.533		

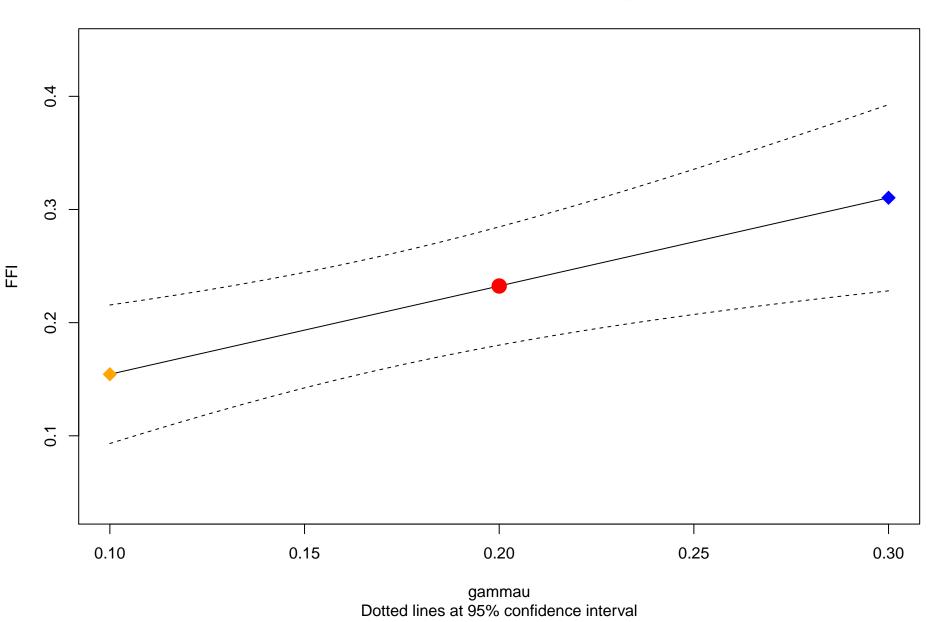
Sobol decomposition indexes (FFI)

Direct effects Interactions					
n	0.024	0.002			
omega1	0.040	0.002			
omega2	0.025	0.002			
zeta1	0.007	0.002			
zeta2	0.000	0.002			
varPhi1	0.071	0.002			
varPhi2	0.001	0.002			
upsilon	0.014	0.002			
chi	0.161	0.002			
χi	0.008	0.002			
gammau	0.653	0.002			

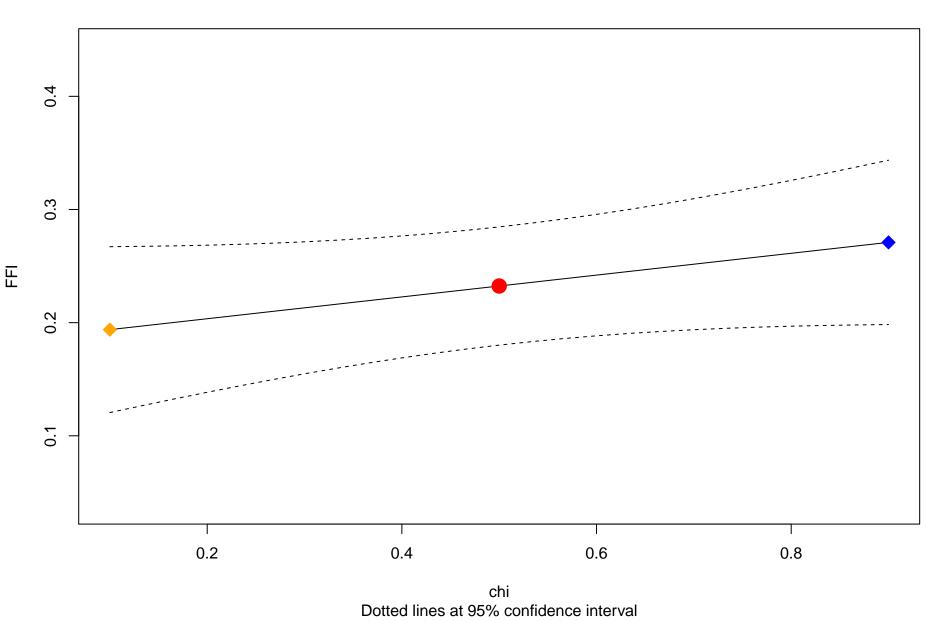
Sobol decomposition indexes (FFI)



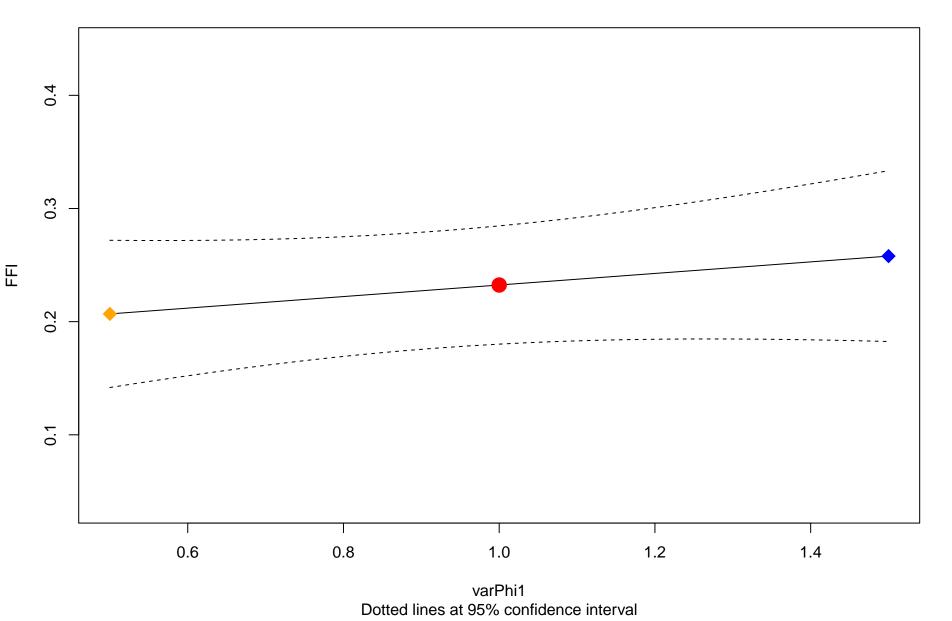
Meta-model response for parameter 'gammau'



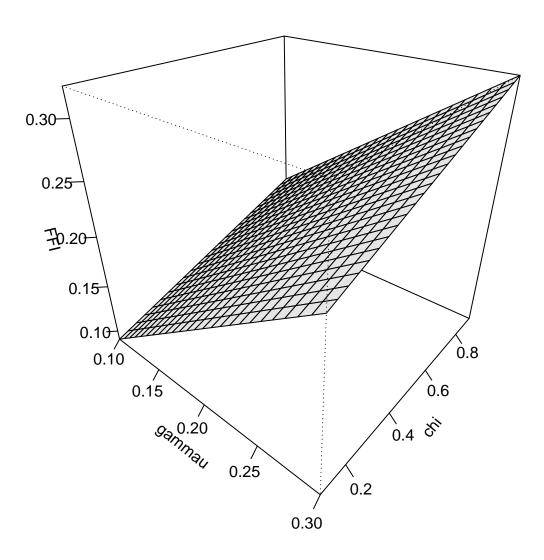
Meta-model response for parameter 'chi'



Meta-model response for parameter 'varPhi1'

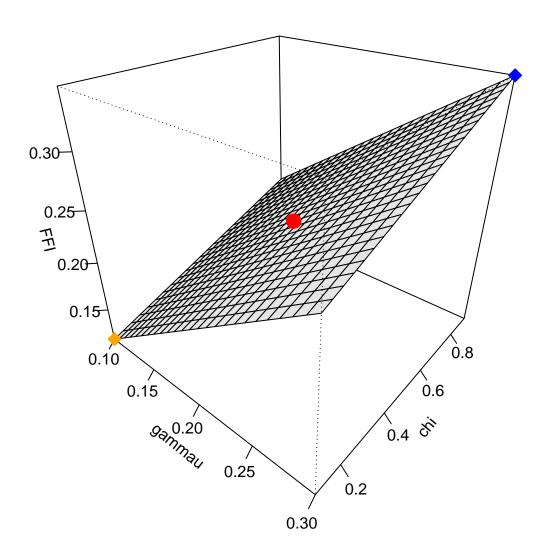


Meta-model response surface (varPhi1 = 0.5)



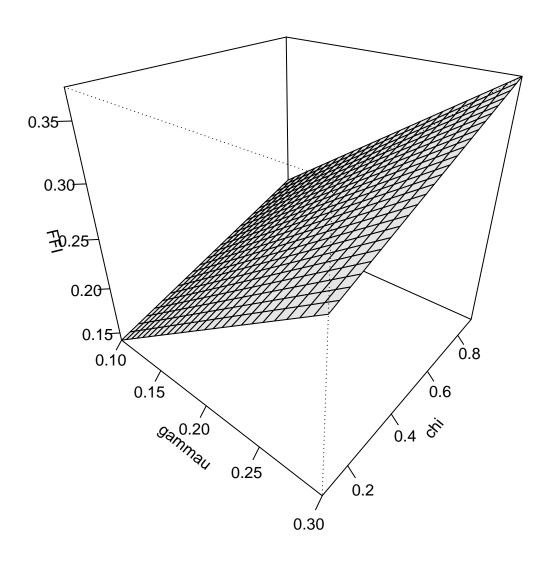
All other parameters are at default settings

Meta-model response surface (varPhi1 = 1)



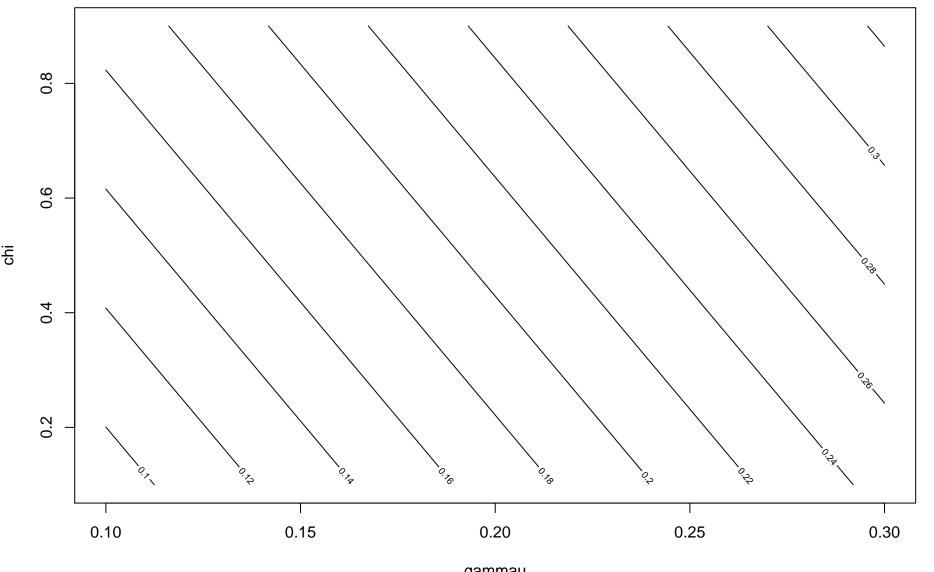
95% confidence interval: FFI = [0.18,0.28] at defaults (red dot)

Meta-model response surface (varPhi1 = 1.5)



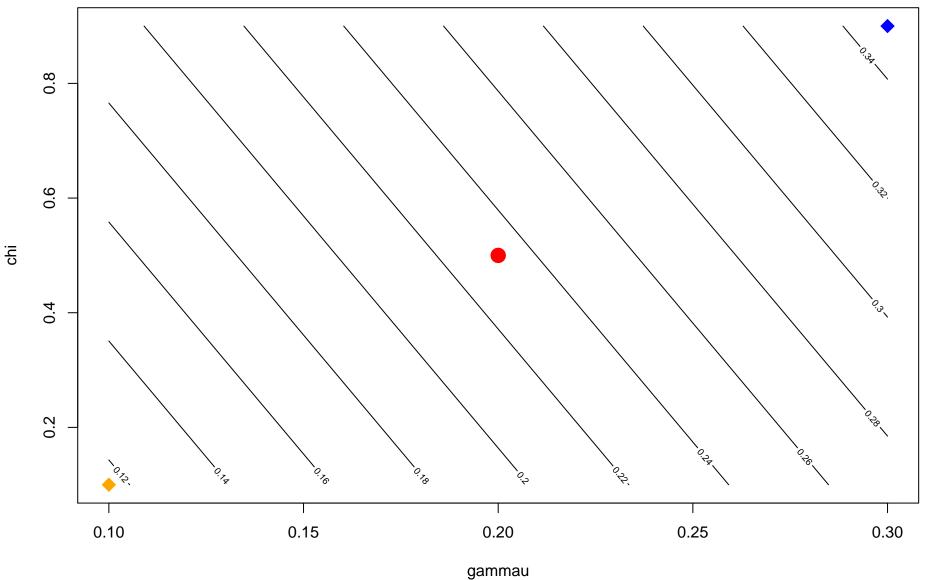
All other parameters are at default settings

Meta-model response surface (varPhi1 = 0.5)



gammau
All other parameters are at default settings

Meta-model response surface (varPhi1 = 1)



95% confidence interval: FFI = [0.18,0.28] at defaults (red dot)

Meta-model response surface (varPhi1 = 1.5)

