Comparison of alternative kriging models

	Matern 5/2	Matern 3/2	Gaussian	exponent.	power exp.
Q2 constant trend	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
Q2 1st order poly. trend	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00	0.000000e+00
RMSE constant trend	1.993769e+18	1.995148e+18	1.995348e+18	1.993685e+18	1.993918e+18
RMSE 1st order poly. trend	1.989744e+18	1.988095e+18	1.995368e+18	1.989241e+18	1.987594e+18
MAE constant trend	6.352724e+17	6.335559e+17	6.310508e+17	6.354858e+17	6.348919e+17
MAE 1st order poly. trend	6.348445e+17	6.353751e+17	6.310319e+17	6.350814e+17	6.349246e+17
RMA constant trend	3.159600e+00	3.161800e+00	3.162100e+00	3.159500e+00	3.159800e+00
RMA 1st order poly. trend	3.153200e+00	3.150600e+00	3.162200e+00	3.152400e+00	3.149800e+00

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

Kriging meta-model estimation (standardized)

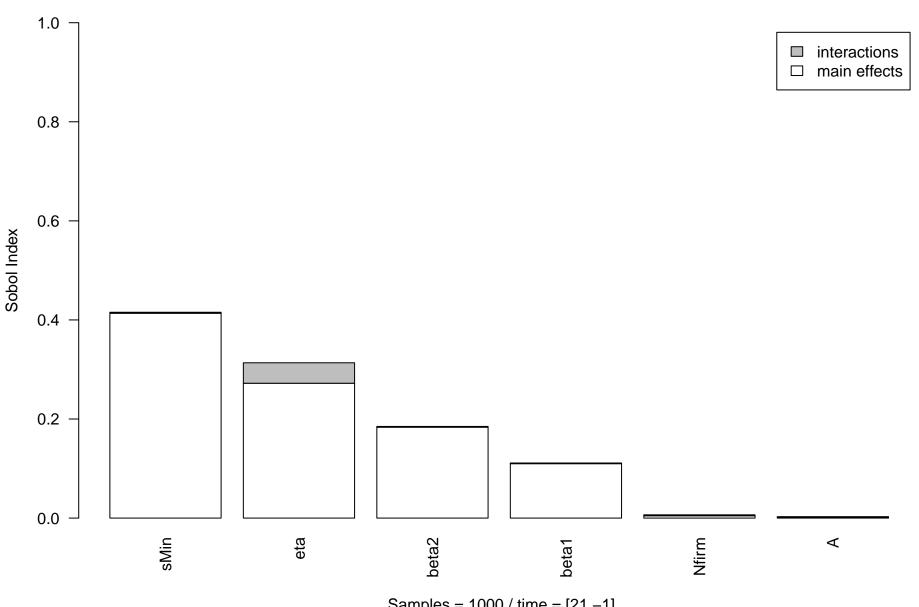
trend(intercept)	-2.254372e+16	Trend specification	1st order poly.
trend(inclination)	2.668014e+16	Correlation function	power exp.
theta(eta)	1.125000e+00	Cross-sample Q2	0.000000e+00
theta(beta1)	0.000000e+00	External RMSE	1.987594e+18
theta(beta2)	1.687000e+00	External MAE	6.349246e+17
theta(A)	1.604000e+00	External RMA	3.150000e+00
theta(sMin)	7.050000e-01	DoE samples	33
theta(Nfirm)	1.967000e+00	External samples	10

Sobol decomposition indexes (aAvg)

Direct effects	Interactions
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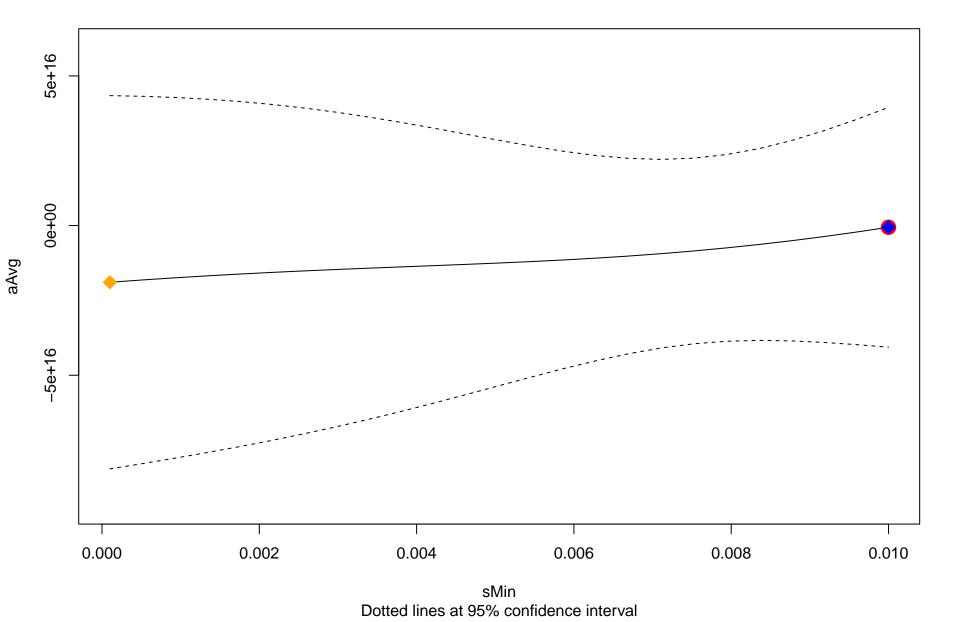
sMin	0.414	0.002
eta	0.272	0.041
beta2	0.183	0.001
beta1	0.110	0.001
Nfirm	0.005	0.002
A	0.002	0.001

Sobol decomposition indexes (aAvg)

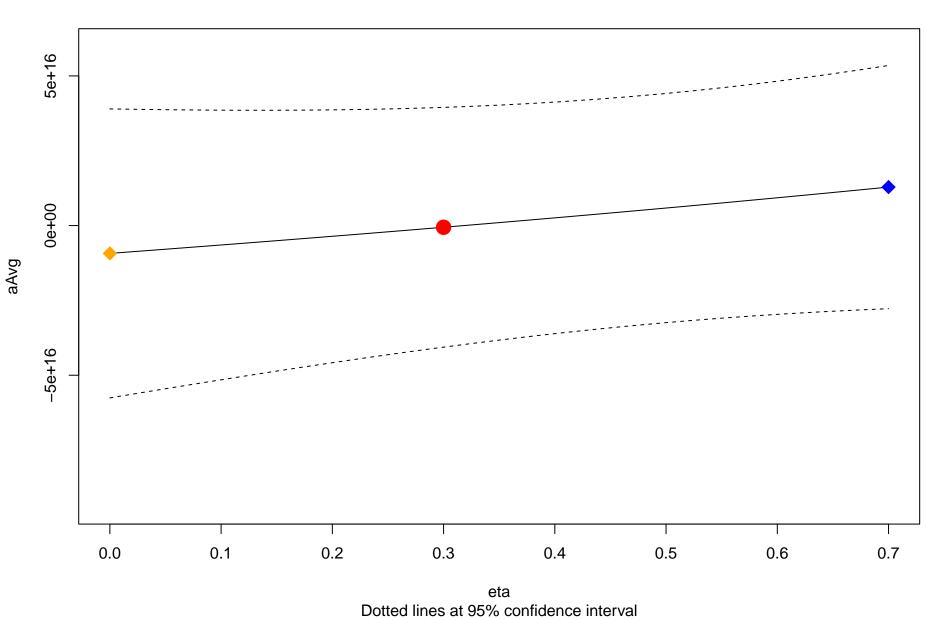


Samples = 1000 / time = [21,-1]

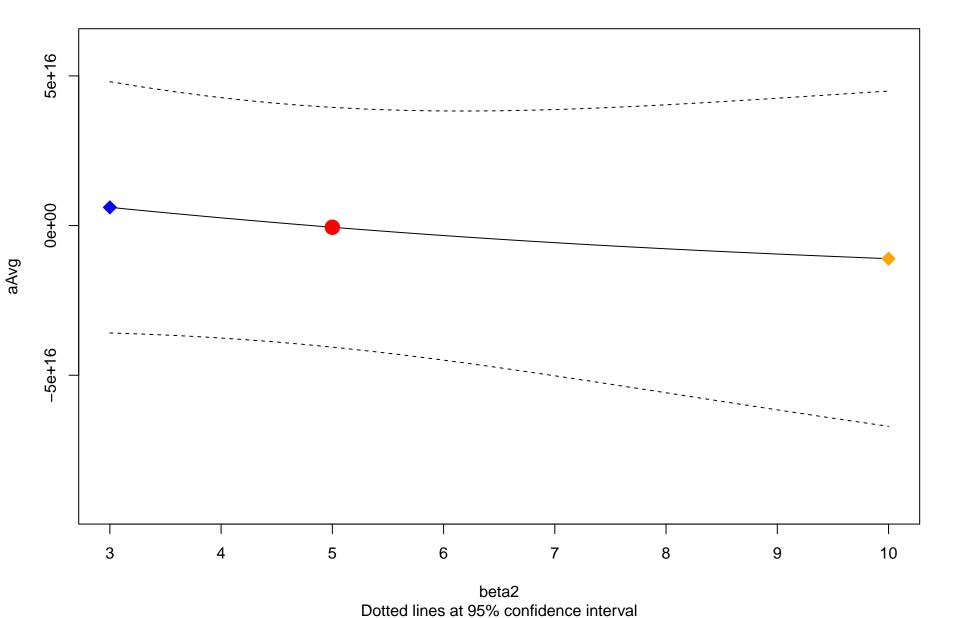
Meta-model response for parameter 'sMin'



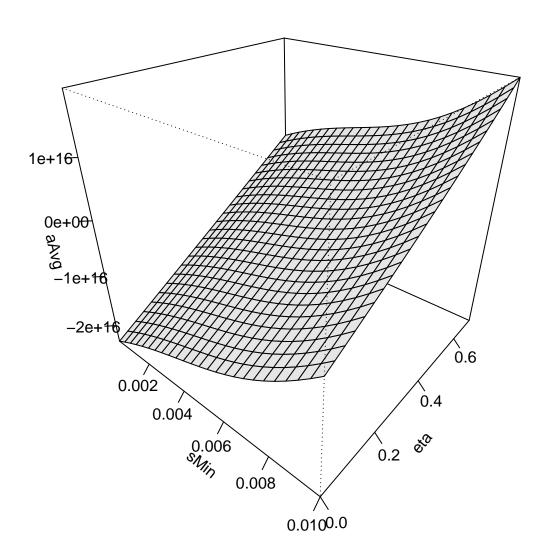
Meta-model response for parameter 'eta'



Meta-model response for parameter 'beta2'

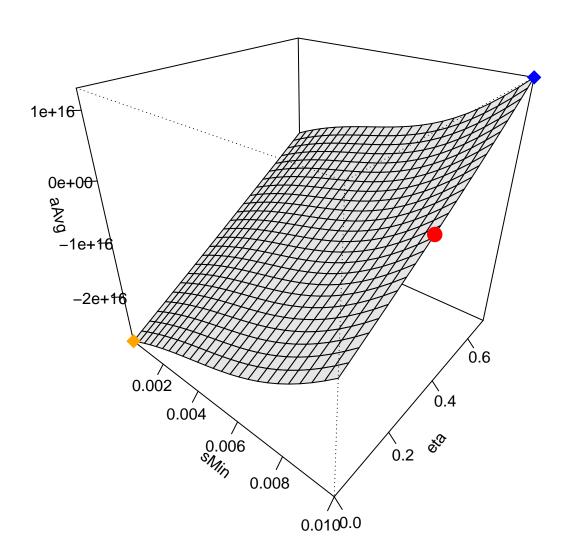


Meta-model response surface (beta2 = 3)

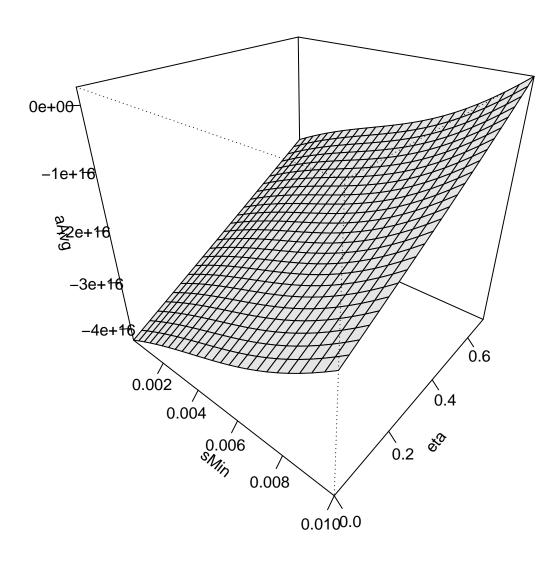


All other parameters are at default settings

Meta-model response surface (beta2 = 5)

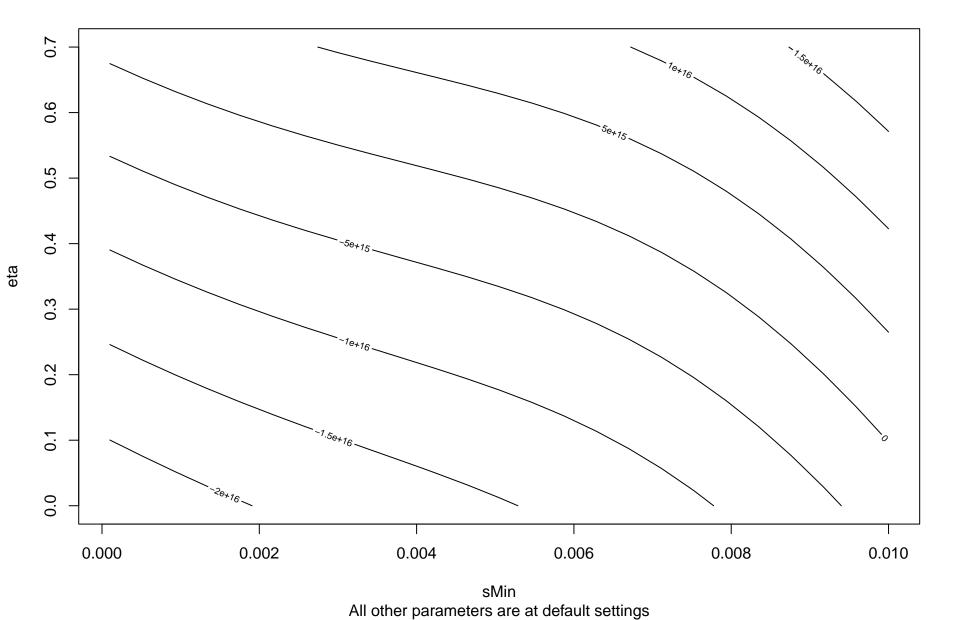


Meta-model response surface (beta2 = 10)

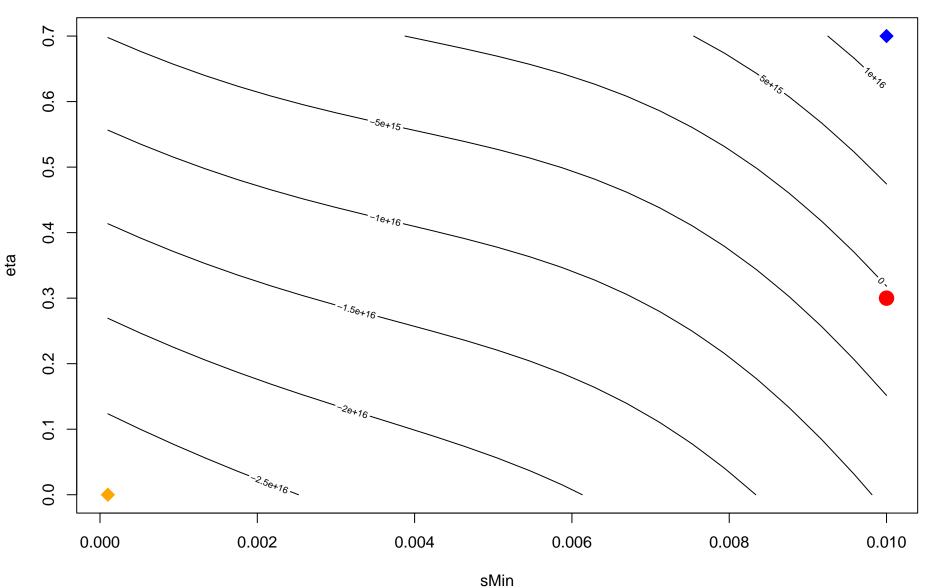


All other parameters are at default settings

Meta-model response surface (beta2 = 3)



Meta-model response surface (beta2 = 5)



95% confidence interval: aAvg = [-40614443258287424,39481831955368880] at defaults (red dot)

Meta-model response surface (beta2 = 10)

