

	<b>GUESS</b>	<b>SNPTEST</b>	<b>piMASS</b>
<b>Sparsity prior</b>	Binomial prior with hyper-prior $\pi$	Bernoulli prior Probability $\pi$ fixed at $10^{-4}$	Bernoulli prior with hyper-prior $\pi$
<b>Hyper-prior on <math>\pi</math></b>	Beta prior User can specify hyper-parameters	No	Log-Uniform prior User can specify hyper-parameters
<b>Prior on error variance</b>	InvGamma/ InvWishart prior. Conjugate with the effects variance	InvGamma/ InvWishart prior. Conjugate with the effects variance	InvGamma prior. Conjugate with the effects variance
<b>Hyper-parameters on prior error variance</b>	Diffuse prior specified. For InvWishart automatic empirical Bayes estimates	Diffuse prior specified	Diffuse prior specified
<b>Prior on regression coefficients</b>	Normal/Matrix normal $g$ -prior	Normal/Matrix normal independent prior	Normal independent prior
<b>Prior on effects variance</b>	InvGamma/ InvWishart prior	InvGamma/ InvWishart prior	InvGamma prior
<b>Hyper-prior on variance of regression coefficients</b>	InvGamma prior (with no existing moments and heavy tails)	No	Special form (heavy tails)