Prior probability for causal SNPs

$$\mathcal{N}\left(\beta_i|0,\sigma_i^2\right)$$

Prior probability for non-causal SNPs

$$\mathcal{N}\left(\beta_i|0,\sigma_{\mathrm{bg}}^2\right)$$

Likelihood $\mathcal{L}(\beta_0, \beta_i)$

Effect size (β_i)