## Probability density function (Log-Normal) realBranch rate $r(\mathcal{R})$ 2.0 5 Mean=1 $\sigma = 0.1$ 4 -1.5 $p(r|\sigma)$ $\sigma = 1$ 3 1.0 2 0.51 0.00.51.0 0.0 0.51.0 1.5 2.0 0.0 1.5 2.0 Branch rate rAbstraction $\mathcal{R}$ [rate] cat with 10 bins quant with 10 pieces Branch rate $r(\mathcal{R})$ Branch rate $r(\mathcal{R})$ 2.0 2.0 1.5 1.5 1.0 1.0 0.50.50.0 0.0 0 $0.5 \ 0.6$ Abstraction $\mathcal{R}$ [category number] Abstraction $\mathcal{R}$ [quantile]