## Probability density function (log-normal) realBranch rate $r(\mathcal{R})$ 2.0 5 Mean=1 $\sigma = 0.1$ 4 -= 0.51.5 $p(r|\sigma)$ $\sigma = 1$ 3 1.0 2 0.50.0 1.0 0.0 0.5 1.0 1.5 2.0 0.0 0.5 1.5 2.0 Branch rate rAbstraction $\mathcal{R}$ [rate] cat with 10 bins quantBranch rate $r(\mathcal{R})$ Branch rate $r(\mathcal{R})$ 2.0 2.0 1.5 1.5 1.0 1.0 0.50.5 0.0 0.0 0 $0.5 \ 0.6$ 0.8 Abstraction $\mathcal{R}$ [category number] Abstraction $\mathcal{R}$ [quantile]