



Figure 1-2: Multiscale modeling example. Note that adding an extra edge significantly reduces boundary artifacts. (a) Desired covariance P . (b) Multiscale tree model. (c) Tree augmented by extra edge. The two weakest edges in this graph's single cycle are highlighted (see §3.5.2). (d) Covariance P_{tree} realized by tree model. (e) Covariance P_{loop} realized by graph with cycles. (f) Error $|P - P_{\text{tree}}|$ in tree realization. (g) Error $|P - P_{\text{loop}}|$ in loopy realization.