

Figure 1: A plot of the number of iterations required for convergence versus the number of nodes  $N$ . The plot shows three data series: 'Noisy' (blue circles), 'Noisy + L2' (orange circles), and 'Noisy + L2 + L1' (green circles). The y-axis ranges from 0 to 10, and the x-axis ranges from 0 to 10. The 'Noisy' series shows a sharp increase in iterations for  $N > 5$ . The 'Noisy + L2' series shows a moderate increase. The 'Noisy + L2 + L1' series shows a sharp increase for  $N > 5$ , similar to the 'Noisy' series.

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