1. Below summarizes the results for applying DCSBM, LSM, and deep walk for link prediction. Random link prediction is added as a baseline (0.5 AUROC). All three methods achieve AUROC scores higher than 0.5, indicating that their prediction are better than random. LSM was the best, followed by deep walk, and then DCSBM. Top 10 links for the best trial are shown with correct links **bolded** and underlined.

random

Averaged over 100 trials

Accuracy: 0.18 / 8

AUROC: 0.4980615942028985

* 1. dcsbm

Averaged over 5 trials

Accuracy: 0.0 / 10

AUROC: 0.661620082815735

Top 10 Links for best trial:

31->32, 10->26, 19->26, 19->27, 19->28, 19->29, 19->30, 19->31, 19->32, 10->19

* 1. lsm

Averaged over 5 trials

Accuracy: 0.6 / 10

AUROC: 0.762888198757764

Top 10 Links for best trial:

8->14, 28->32, 15->23, 21->30, 18->22, 21->24, 9->14, 15->19, **2->4**, 3->31

* 1. deep\_walk

Top 10 Score: 547.2291046142578

Accuracy: 2.0 / 10

AUROC: 0.6880952380952381

Top 10 Links for best trial:

26->28, **25->32**, 16->26, 16->25, 26->29, 25->29, **24->26**, 24->25, 16->28,

28->32

1. Note I’m assuming that is the CDF of , not .