Table 1: SSL Comparison: MNIST: Average (standard deviation) classification accuracy over 100 trials.

# Labels per class	1	2	3	4	5
High order laplace learningN = 10m = 0.1	35.7 (5.6)	38.9 (4.5)	41.3 (3.7)	42.7 (2.9)	43.
High order laplace learningN = 20m = 0.1	41.7 (5.5)	**47.8 (5.3)**	**51.0 (3.8)**	**53.2 (3.1)**	**54.**
High order laplace learningN = 30m = 0.1	39.8 (5.1)	46.5 (5.0)	50.0 (3.8)	52.6 (3.0)	53.
High order laplace learningN = 40m = 0.1	37.8 (4.7)	44.9 (4.6)	48.6 (3.6)	51.5 (3.1)	52.
High order laplace learningN = 50m = 0.1	36.8 (4.7)	44.1 (4.5)	48.0 (3.6)	51.0 (3.2)	52.
High order laplace learningN = 10m = 0.2	35.7 (5.6)	38.8 (4.5)	41.2 (3.7)	42.5 (2.9)	43.
High order laplace learningN = 20m = 0.2	41.8 (5.5)	47.8 (5.3)	51.0 (3.8)	53.1 (3.1)	54.
High order laplace learningN = 30m = 0.2	40.1 (5.1)	46.8 (5.0)	50.2 (3.8)	52.8 (3.0)	54.
High order laplace learningN = 40m = 0.2	38.2 (4.8)	45.3 (4.7)	49.0 (3.6)	51.8 (3.0)	53.
High order laplace learningN = 50m = 0.2	37.3 (4.8)	44.6 (4.5)	48.5 (3.6)	51.5 (3.2)	53.
High order laplace learningN = 10m = 0.30000000000000004	35.6 (5.6)	38.7 (4.5)	41.1 (3.7)	42.4 (2.9)	42.
High order laplace learningN = 20m = 0.30000000000000004	**41.8 (5.5)**	47.7 (5.3)	51.0 (3.9)	53.1 (3.1)	54.
High order laplace learningN = 30m = 0.30000000000000004	40.4 (5.2)	47.0 (5.0)	50.4 (3.8)	52.9 (3.0)	54.
High order laplace learningN = 40m = 0.30000000000000004	38.6 (4.9)	45.7 (4.7)	49.4 (3.6)	52.1 (3.0)	53.
High order laplace learningN = 50m = 0.30000000000000004	37.8 (4.9)	45.1 (4.6)	49.0 (3.5)	51.9 (3.2)	53.
High order laplace learningN = 10m = 0.4	35.5 (5.5)	38.5 (4.5)	40.9 (3.7)	42.2 (2.9)	42.
High order laplace learningN = 20m = 0.4	41.8 (5.5)	47.6 (5.3)	50.9 (3.9)	52.9 (3.1)	54.
High order laplace learningN = 30m = 0.4	40.6 (5.2)	47.1 (5.0)	50.5 (3.8)	53.0 (3.0)	54.
High order laplace learningN = 40m = 0.4	39.0 (4.9)	46.0 (4.7)	49.6 (3.6)	52.3 (3.0)	53.
High order laplace learningN = 50m = 0.4	38.3 (5.0)	45.5 (4.6)	49.4 (3.5)	52.2 (3.1)	53.
High order laplace learningN = 10m = 0.5	35.4 (5.5)	38.3 (4.6)	40.7 (3.7)	42.0 (2.9)	42.
High order laplace learningN = 20m = 0.5	41.7 (5.5)	47.5 (5.4)	50.8 (3.9)	52.8 (3.1)	54.
High order laplace learningN = 30m = 0.5	40.8 (5.2)	47.2 (5.1)	50.6 (3.8)	53.0 (3.0)	54.
High order laplace learningN = 40m = 0.5	39.3 (5.0)	46.2 (4.7)	49.8 (3.6)	52.4 (3.0)	53.
High order laplace learningN = 50m = 0.5	38.7 (5.1)	45.8 (4.7)	49.6 (3.5)	52.4 (3.1)	53.
High order laplace learningN = 10m = 0.6	35.3 (5.6)	38.1 (4.6)	40.5 (3.7)	41.7 (2.9)	42.
High order laplace learningN = 20m = 0.6	41.7 (5.6)	47.3 (5.5)	50.6 (3.9)	52.6 (3.1)	53.
High order laplace learningN = 30m = 0.6	40.9 (5.3)	47.2 (5.1)	50.5 (3.8)	52.9 (3.0)	54.
High order laplace learningN = 40m = 0.6	39.6 (5.1)	46.4 (4.8)	49.9 (3.7)	52.5 (3.0)	53.
High order laplace learningN = 50m = 0.6	39.1 (5.1)	46.0 (4.7)	49.8 (3.5)	52.6 (3.0)	53.
High order laplace learningN = 10m = 0.7000000000000001	35.2 (5.6)	37.9 (4.6)	40.3 (3.7)	41.5 (3.0)	41.
High order laplace learningN = 20m = 0.7000000000000001	41.6 (5.6)	47.0 (5.5)	50.4 (4.0)	52.3 (3.1)	53.
High order laplace learningN = 30m = 0.7000000000000001	41.0 (5.3)	47.1 (5.2)	50.5 (3.8)	52.8 (3.0)	54.
High order laplace learningN = 40m = 0.7000000000000001	39.8 (5.2)	46.4 (4.8)	49.9 (3.7)	52.5 (3.0)	53.
High order laplace learningN = 50m = 0.7000000000000001	39.4 (5.2)	46.2 (4.8)	49.9 (3.5)	52.6 (3.0)	53.
High order laplace learningN = 10m = 0.8	35.0 (5.5)	37.7 (4.5)	40.1 (3.8)	41.2 (3.0)	41.
High order laplace learningN = 20m = 0.8	41.4 (5.7)	46.8 (5.5)	50.1 (3.9)	52.0 (3.1)	53.
High order laplace learningN = 30m = 0.8	41.0 (5.3)	47.0 (5.2)	50.3 (3.8)	52.6 (3.0)	53.
High order laplace learningN = 40m = 0.8	40.0 (5.2)	46.4 (4.9)	49.8 (3.7)	52.4 (2.9)	53.
High order laplace learningN = 50m = 0.8	39.7 (5.2)	46.3 (4.8)	50.0 (3.5)	52.6 (3.0)	53.
High order laplace learningN = 10m = 0.9	34.9 (5.5)	37.4 (4.5)	39.9 (3.8)	40.9 (3.1)	41.
High order laplace learningN = 20m = 0.9	41.3 (5.7)	46.5 (5.6)	49.8 (3.9)	51.6 (3.1)	53.
High order laplace learningN = 30m = 0.9	41.1 (5.4)	46.9 (5.3)	50.1 (3.8)	52.4 (3.0)	53.
High order laplace learningN = 40m = 0.9	40.1 (5.3)	46.3 (4.9)	49.7 (3.7)	52.2 (3.0)	53.
High order laplace learningN = 50m = 0.9	39.9 (5.3)	46.3 (4.9)	49.9 (3.6)	52.4 (3.0)	53.
High order laplace learningN = 10m = 1.0	34.7 (5.5)	37.1 (4.5)	39.6 (3.8)	40.6 (3.1)	40.
High order laplace learningN = 20m = 1.0	41.1 (5.8)	46.1 (5.6)	49.4 (3.9)	51.3 (3.2)	52.
High order laplace learningN = 30m = 1.0	41.0 (5.4)	46.6 (5.3)	49.8 (3.7)	52.1 (3.1)	53.
High order laplace learningN = 40m = 1.0	40.2 (5.3)	46.2 (5.0)	49.5 (3.7)	51.9 (3.0)	53.
High order laplace learningN = 50m = 1.0	40.0 (5.4)	46.2 (4.9)	49.7 (3.6)	52.2 (3.0)	53.
High order laplace learningN = 10m = 1.1	34.5 (5.5)	36.8 (4.5)	39.3 (3.9)	40.2 (3.1)	40.
High order laplace learningN = 20m = 1.1	40.9 (5.8)	45.7 (5.6)	49.0 (3.9)	50.8 (3.2)	52.
High order laplace learningN = 30m = 1.1	41.0 (5.5)	46.3 (5.4)	49.5 (3.7)	51.7 (3.1)	52.
High order laplace learningN = 40m = 1.1	40.3 (5.4)	46.0 (5.0)	49.3 (3.7)	51.6 (3.0)	52.
High order laplace learningN = 50m = 1.1	40.1 (5.4)	46.1 (5.0)	49.5 (3.6)	51.9 (3.1)	53.
High order laplace learningN = 10m = 1.2000000000000002	34.3 (5.5)	36.5 (4.4)	39.0 (3.9)	39.8 (3.2)	40.
High order laplace learningN = 20m = 1.2000000000000002	40.6 (5.8)	45.3 (5.6)	48.6 (3.9)	50.3 (3.3)	51.
High order laplace learningN = 30m = 1.2000000000000002	40.9 (5.5)	46.0 (5.4)	49.1 (3.7)	51.2 (3.2)	52.
High order laplace learningN = 40m = 1.2000000000000002	40.3 (5.4)	45.7 (5.1)	49.0 (3.7)	51.2 (3.1)	52.
High order laplace learningN = 50m = 1.2000000000000002	40.2 (5.4)	45.8 (5.1)	49.2 (3.6)	51.5 (3.1)	52.
High order laplace learningN = 10m = 1.3000000000000003	34.0 (5.4)	36.2 (4.4)	38.6 (3.9)	39.4 (3.2)	39.
High order laplace learningN = 20m = 1.3000000000000003	40.4 (5.9)	44.8 (5.6)	48.1 (3.9)	49.7 (3.4)	51.