

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 = 50M = 0.1	47.6 (4.3)	55.4 (3.9)	61.3 (3.2)	63.8 (2.9)	66.0 (2.6)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.1	41.3 (3.2)	49.6 (3.3)	54.7 (2.8)	58.0 (2.6)	56.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.1	38.5 (3.0)	45.8 (2.9)	50.5 (2.5)	53.5 (2.5)	56.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.1	36.5 (2.7)	43.1 (2.6)	47.4 (2.2)	50.4 (2.3)	53.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.1	35.5 (2.3)	41.6 (2.5)	45.6 (2.1)	48.4 (2.1)	50.0 (2.1)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.1	34.4 (2.3)	40.1 (2.1)	43.8 (2.0)	46.7 (1.9)	49.0 (1.9)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.2	49.8 (4.4)	57.6 (3.9)	63.4 (3.1)	65.6 (2.8)	67.0 (2.7)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.2	43.8 (3.4)	52.4 (3.4)	57.6 (2.8)	60.7 (2.6)	63.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.2	41.3 (3.2)	49.0 (3.0)	53.8 (2.5)	56.8 (2.6)	59.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.2	39.4 (2.9)	46.5 (2.7)	51.1 (2.3)	54.2 (2.4)	56.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.2	38.5 (2.6)	45.1 (2.6)	49.4 (2.2)	52.3 (2.1)	55.0 (2.1)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.2	37.3 (2.6)	43.6 (2.3)	47.7 (2.1)	50.7 (2.0)	53.0 (2.0)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.30000000000000000004	52.0 (4.4)	59.6 (3.8)	65.1 (3.0)	67.1 (2.7)	69.0 (2.6)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.30000000000000000004	46.6 (3.5)	55.2 (3.5)	60.3 (2.8)	63.3 (2.5)	65.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.30000000000000000004	44.5 (3.4)	52.4 (3.0)	57.1 (2.6)	60.1 (2.6)	62.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.30000000000000000004	42.8 (3.1)	50.3 (2.8)	54.9 (2.3)	57.9 (2.4)	60.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.30000000000000000004	42.0 (2.9)	49.1 (2.7)	53.5 (2.3)	56.4 (2.2)	59.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.30000000000000000004	41.0 (2.9)	47.7 (2.5)	52.1 (2.2)	55.0 (2.1)	57.0 (2.1)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.4	54.0 (4.4)	61.2 (3.8)	66.3 (2.9)	68.2 (2.6)	70.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.4	49.5 (3.6)	57.8 (3.6)	62.8 (2.7)	65.4 (2.5)	67.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.4	47.7 (3.5)	55.5 (3.1)	60.1 (2.5)	62.9 (2.6)	65.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.4	46.4 (3.3)	54.0 (2.9)	58.5 (2.4)	61.3 (2.3)	63.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.4	45.8 (3.1)	52.9 (2.8)	57.4 (2.3)	60.1 (2.2)	62.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.4	45.0 (3.1)	51.8 (2.7)	56.3 (2.2)	59.0 (2.2)	61.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.5	55.6 (4.4)	62.5 (3.8)	67.3 (2.8)	69.0 (2.6)	70.0 (2.5)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.5	52.1 (3.7)	60.0 (3.6)	64.7 (2.7)	67.1 (2.5)	69.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.5	50.7 (3.7)	58.2 (3.2)	62.7 (2.5)	65.2 (2.5)	67.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.5	49.7 (3.5)	57.0 (3.0)	61.5 (2.4)	64.0 (2.3)	66.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.5	49.3 (3.4)	56.2 (2.9)	60.6 (2.3)	63.1 (2.2)	65.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.5	48.8 (3.4)	55.5 (2.9)	59.8 (2.2)	62.3 (2.2)	64.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.6	56.9 (4.4)	63.4 (3.8)	68.0 (2.8)	69.5 (2.5)	71.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.6	54.3 (3.9)	61.7 (3.7)	66.1 (2.7)	68.3 (2.4)	70.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.6	53.2 (3.9)	60.3 (3.3)	64.6 (2.5)	66.9 (2.5)	69.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.6	52.5 (3.8)	59.5 (3.2)	63.8 (2.4)	66.0 (2.3)	68.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.6	52.2 (3.7)	58.9 (3.1)	63.2 (2.4)	65.4 (2.3)	67.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.6	52.0 (3.7)	58.4 (3.1)	62.6 (2.3)	64.9 (2.2)	67.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.70000000000000000001	57.8 (4.5)	64.1 (3.8)	68.5 (2.7)	69.9 (2.5)	71.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.70000000000000000001	55.9 (4.0)	62.9 (3.7)	67.2 (2.6)	69.1 (2.4)	71.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.70000000000000000001	55.2 (4.1)	61.9 (3.5)	66.0 (2.5)	68.1 (2.4)	70.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.70000000000000000001	54.7 (4.0)	61.3 (3.3)	65.5 (2.4)	67.4 (2.3)	69.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.70000000000000000001	54.6 (4.0)	60.9 (3.2)	65.0 (2.4)	67.0 (2.3)	69.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.70000000000000000001	54.5 (4.0)	60.6 (3.2)	64.7 (2.4)	66.7 (2.2)	68.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.8	58.5 (4.5)	64.6 (3.8)	68.8 (2.7)	70.1 (2.5)	71.0 (2.4)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.8	57.2 (4.2)	63.7 (3.8)	67.9 (2.6)	69.7 (2.4)	71.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.8	56.6 (4.2)	63.0 (3.6)	67.1 (2.5)	68.9 (2.3)	70.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.8	56.3 (4.2)	62.6 (3.5)	66.7 (2.4)	68.5 (2.3)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.8	56.3 (4.1)	62.4 (3.4)	66.4 (2.4)	68.2 (2.3)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.8	56.3 (4.2)	62.3 (3.4)	66.1 (2.4)	68.0 (2.2)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 0.9	59.0 (4.5)	64.9 (3.8)	69.0 (2.6)	70.2 (2.4)	71.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 100M = 0.9	58.0 (4.3)	64.3 (3.8)	68.4 (2.6)	70.0 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 150M = 0.9	57.6 (4.3)	63.7 (3.7)	67.8 (2.5)	69.4 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 200M = 0.9	57.5 (4.3)	63.5 (3.6)	67.5 (2.5)	69.1 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 250M = 0.9	57.5 (4.3)	63.4 (3.5)	67.3 (2.4)	68.9 (2.2)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 0.9	57.6 (4.3)	63.3 (3.5)	67.1 (2.4)	68.8 (2.2)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 1.0	59.4 (4.5)	65.0 (3.8)	69.0 (2.6)	70.1 (2.4)	71.0 (2.3)
HIGH ORDER LAPLACE LEARNINGN = 100M = 1.0	58.6 (4.4)	64.6 (3.8)	68.6 (2.6)	70.1 (2.3)	70.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 150M = 1.0	58.3 (4.3)	64.2 (3.8)	68.2 (2.5)	69.7 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 200M = 1.0	58.3 (4.4)	64.0 (3.7)	68.0 (2.5)	69.5 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 250M = 1.0	58.3 (4.3)	64.0 (3.6)	67.8 (2.4)	69.3 (2.3)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 300M = 1.0	58.5 (4.4)	64.0 (3.6)	67.7 (2.4)	69.2 (2.2)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 50M = 1.1	59.6 (4.5)	65.0 (3.8)	68.8 (2.6)	69.8 (2.4)	71.0 (2.2)
HIGH ORDER LAPLACE LEARNINGN = 100M = 1.1	59.0 (4.4)	64.8 (3.9)	68.7 (2.6)	70.0 (2.3)	71.0 (2.2)