1. Model1

   - Conv Layers (ch in, ch out, kernel, stride, padding =0)
     - (1, 4, 2, 1, 0)
     - (4, 16, 2, 1, 0)
     - (16, 32, 4, 2, 0)
     - (32, 64, 4, 2, 0)
     - (64, 128, 4, 2, 0)
     - (128, 128, 4, 2, 0)
     - (128, 128, 4, 2, 0)
     - (128, 128, 4, 2, 0)
   - Dense layer: 512=2*2*128 $\implies$ n_latent
   - Sizes at layers: 256,255,254,126,62,30,14,6,2

2. Model2

   - Conv Layers (ch in, ch out, kernel, stride, padding =0)
     - (1, 4, 2, 1, 0)
     - (4, 16, 2, 1, 0)
     - (16, 32, 4, 2, 0)
     - (32, 64, 4, 2, 0)
     - (64, 128, 4, 2, 0)
     - (128, 128, 4, 2, 0)
     - (128, 128, 4, 2, 0)
   - Dense layer: 4608 = 6*6*128 $\implies$ n_latent
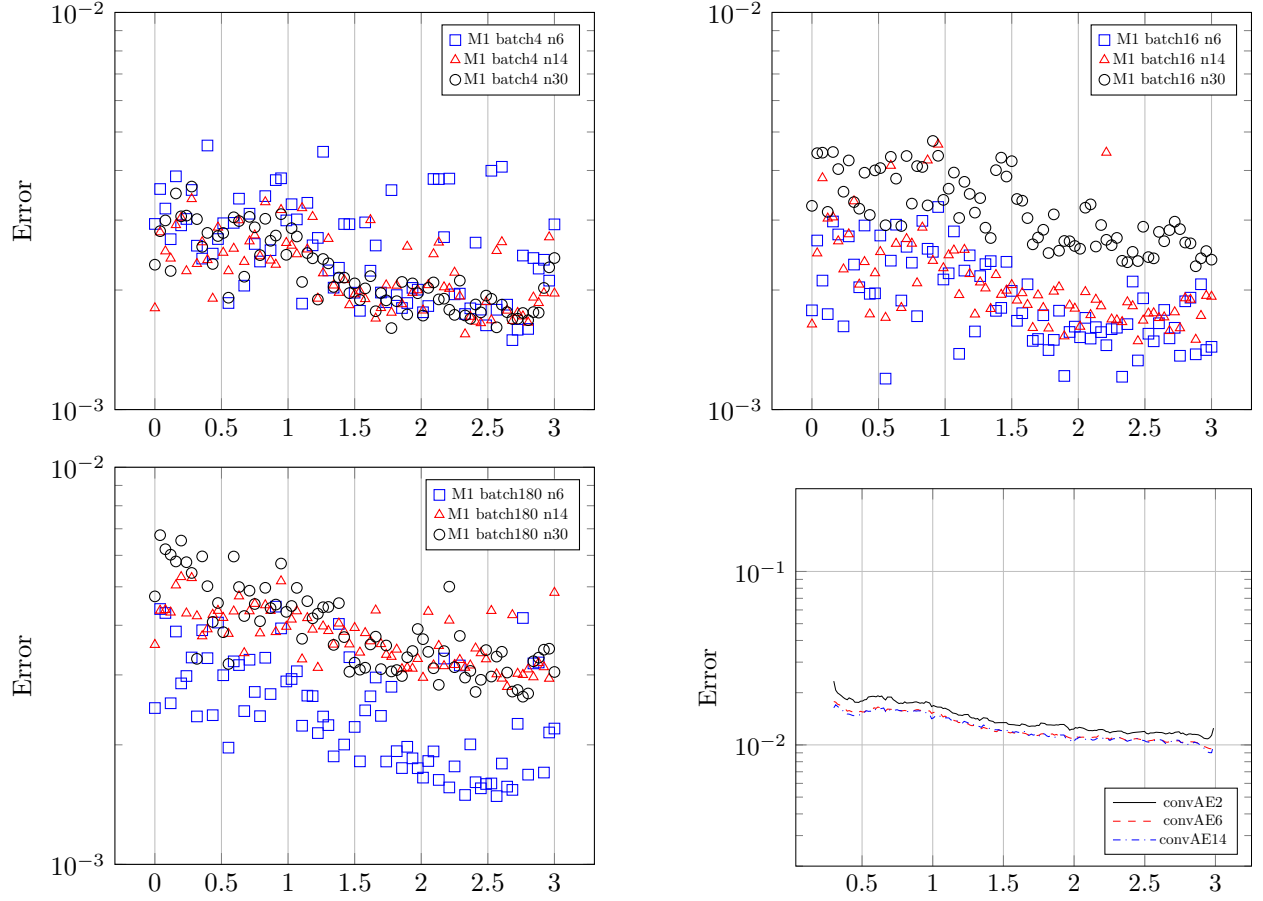   - Sizes at layers: 256,255,254,126,62,30,14,6

Figure 1: ConvAE errors with different models (bottom right is the old one)
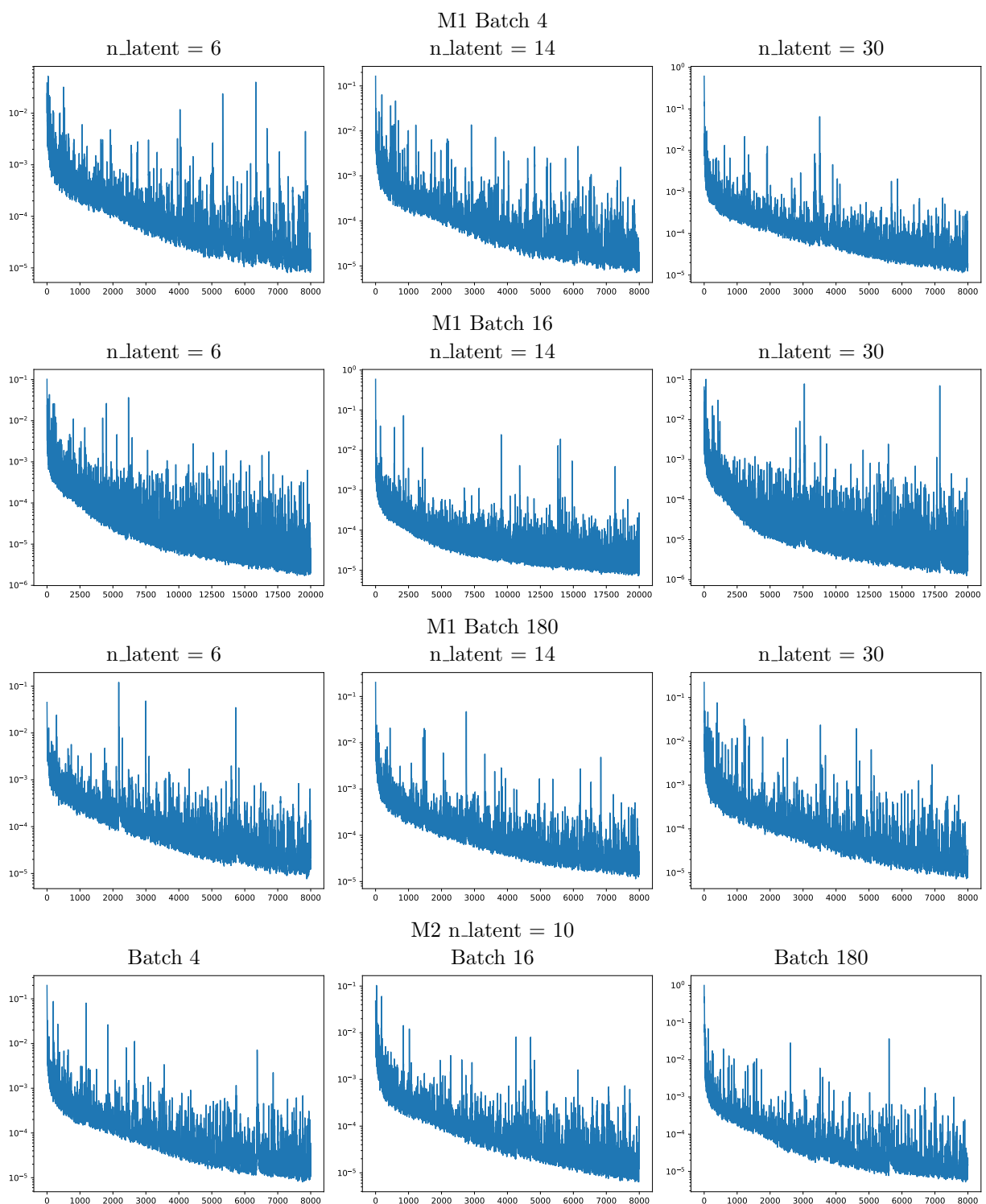
M1 Batch 4

n_latent = 6   n_latent = 14   n_latent = 30

M1 Batch 16

n_latent = 6   n_latent = 14   n_latent = 30

M1 Batch 180

n_latent = 6   n_latent = 14   n_latent = 30

M2 n_latent = 10

Batch 4   Batch 16   Batch 180

Figure 2: Losses