

Figure 1. Complexity vs. accuracy on MNIST. Resnet - 3 layers - 20×20 kernels - square width

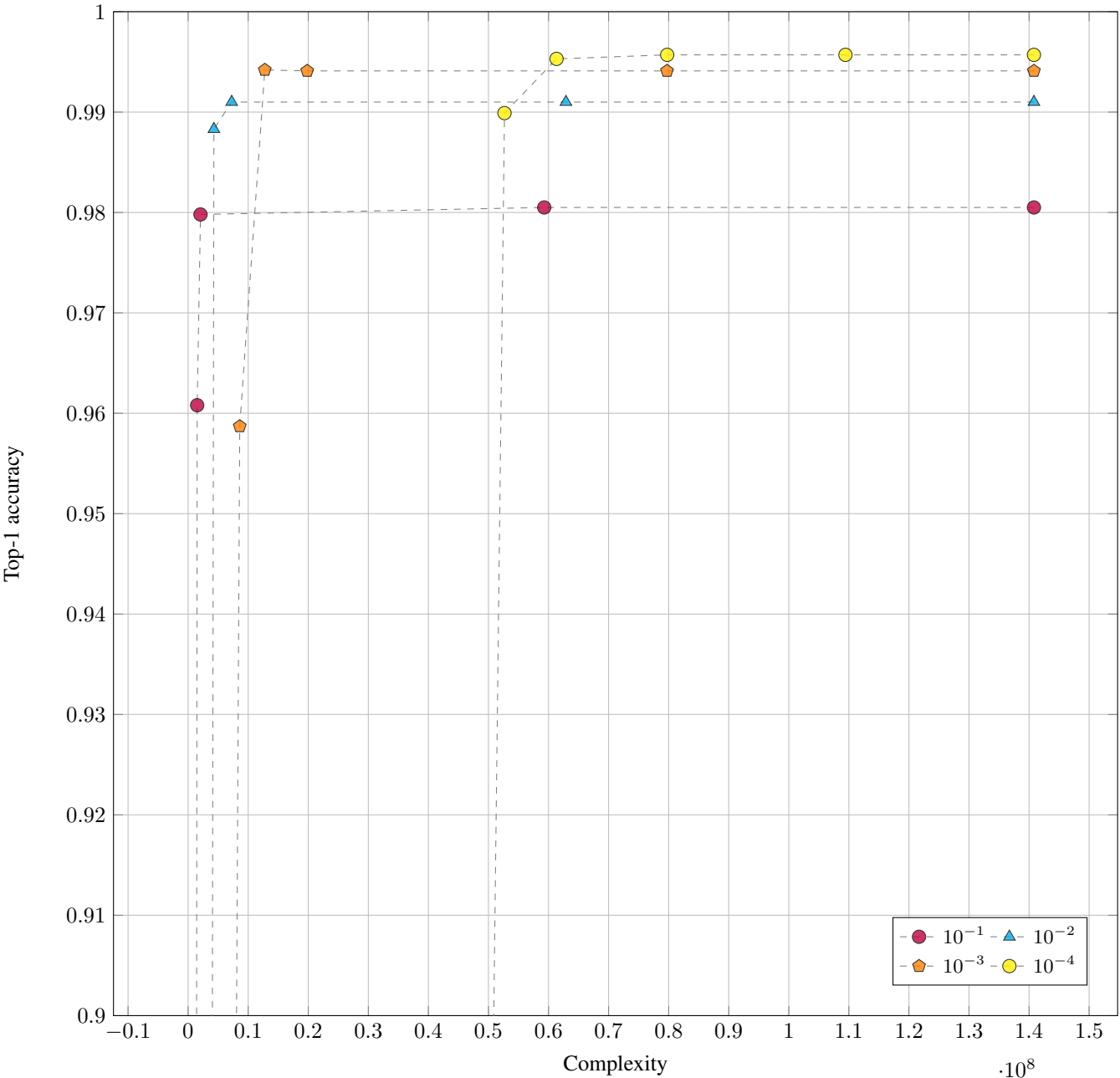


Figure 2. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 5×5 kernels

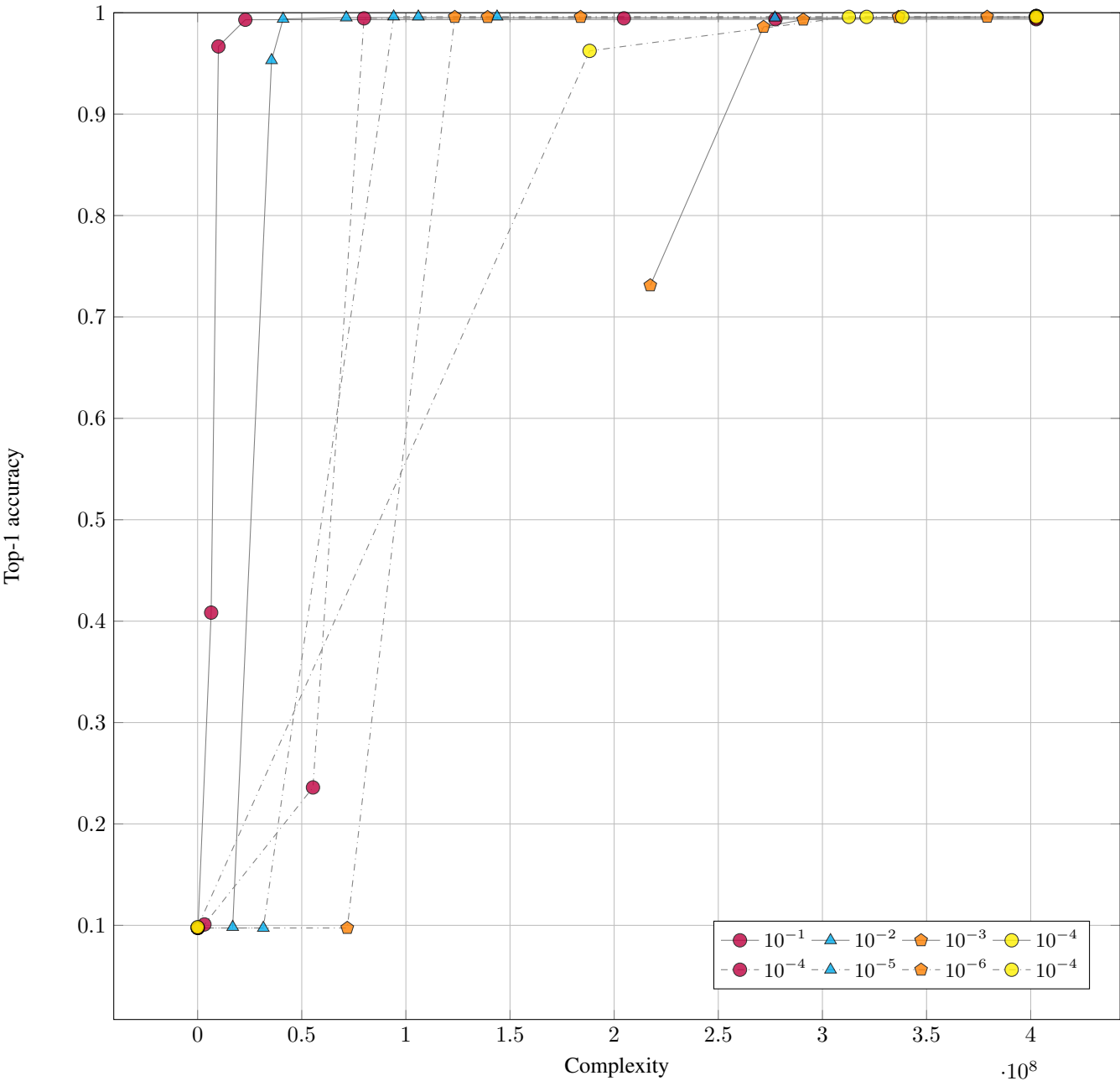


Figure 3. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 5×5 kernels - square width

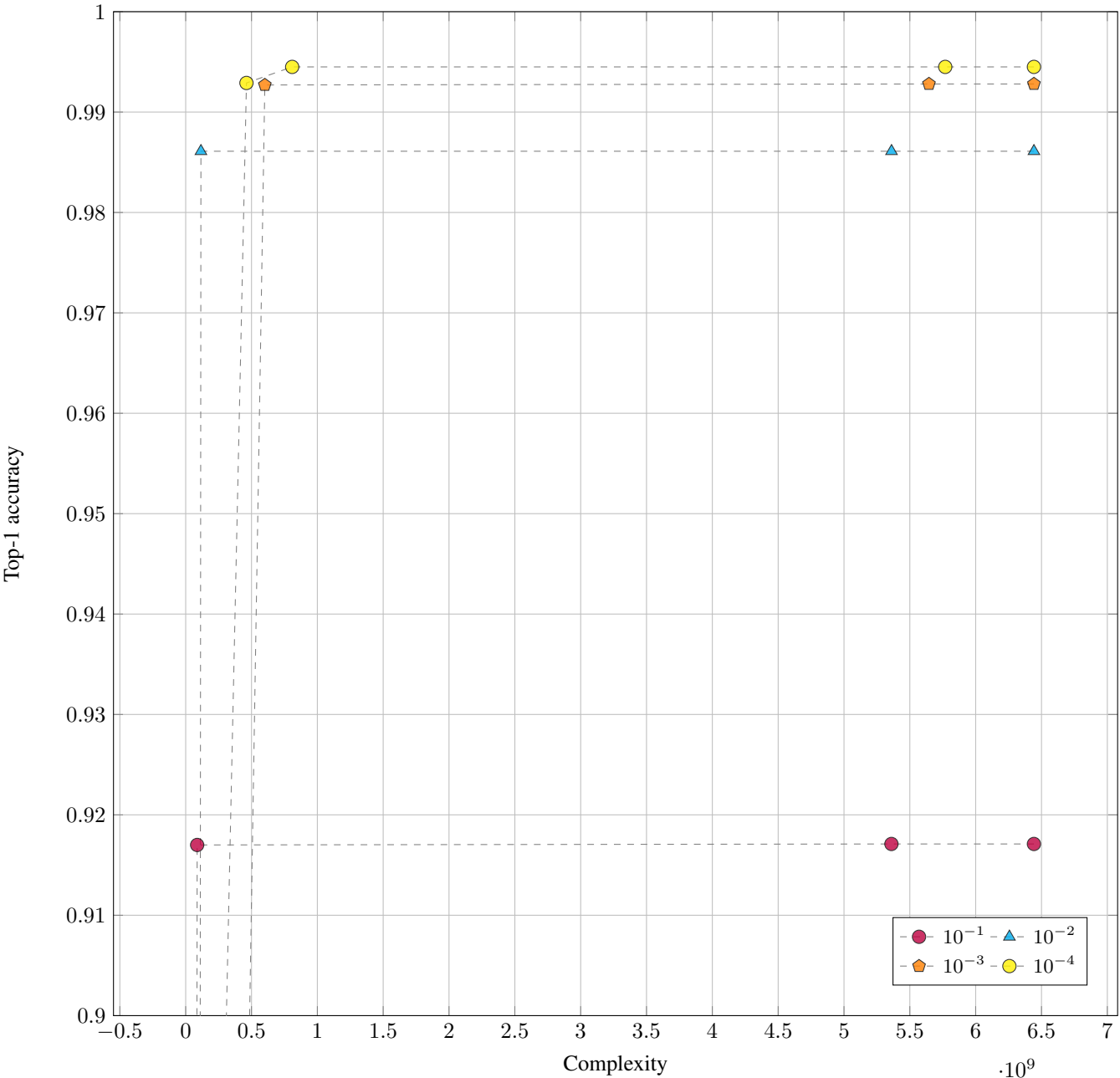


Figure 4. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 20×20 kernels - square width

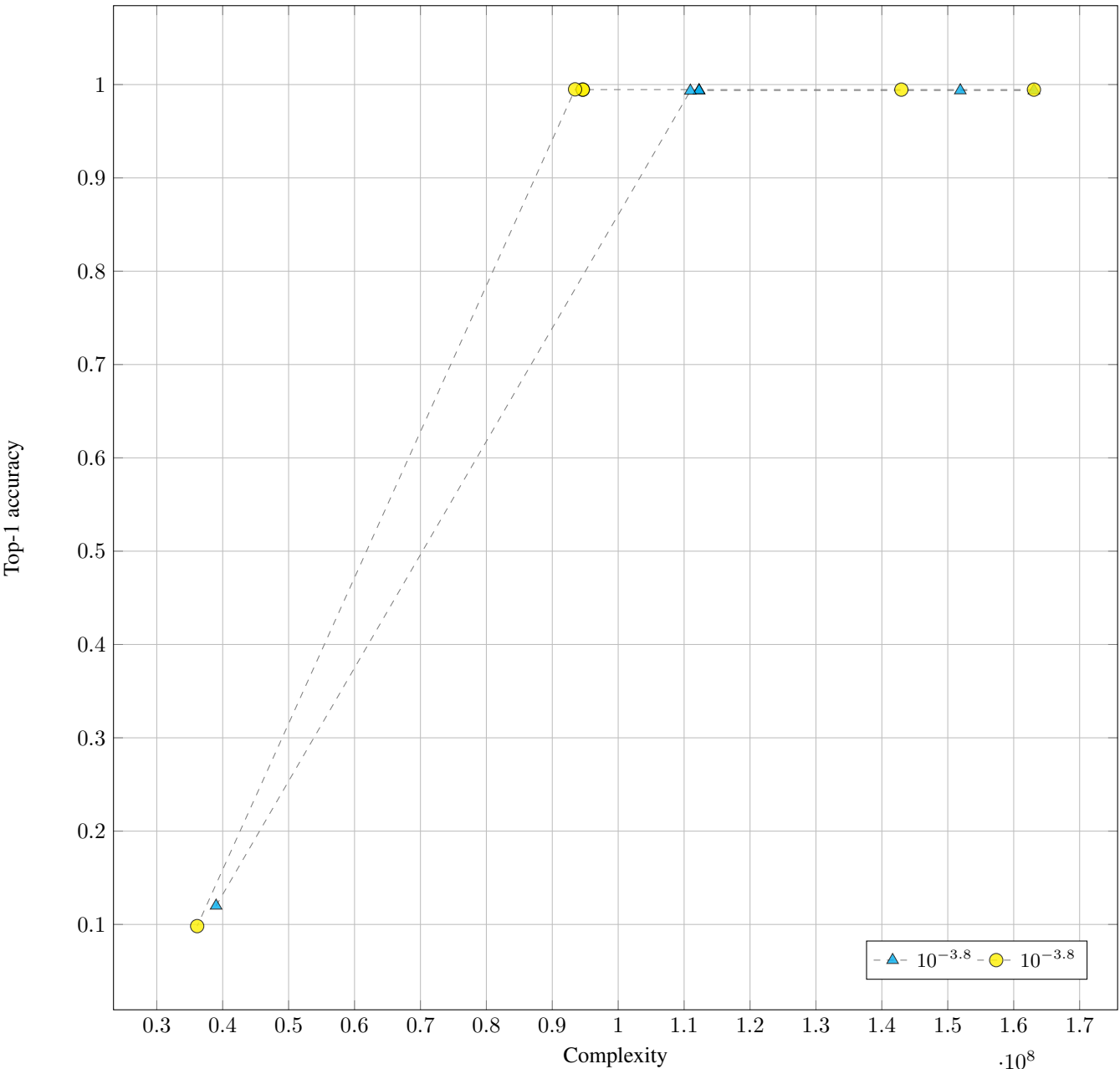


Figure 5. Complexity vs. accuracy on MNIST. Resnet - 4 layers - 20×20 kernels - square width - Convexity testing

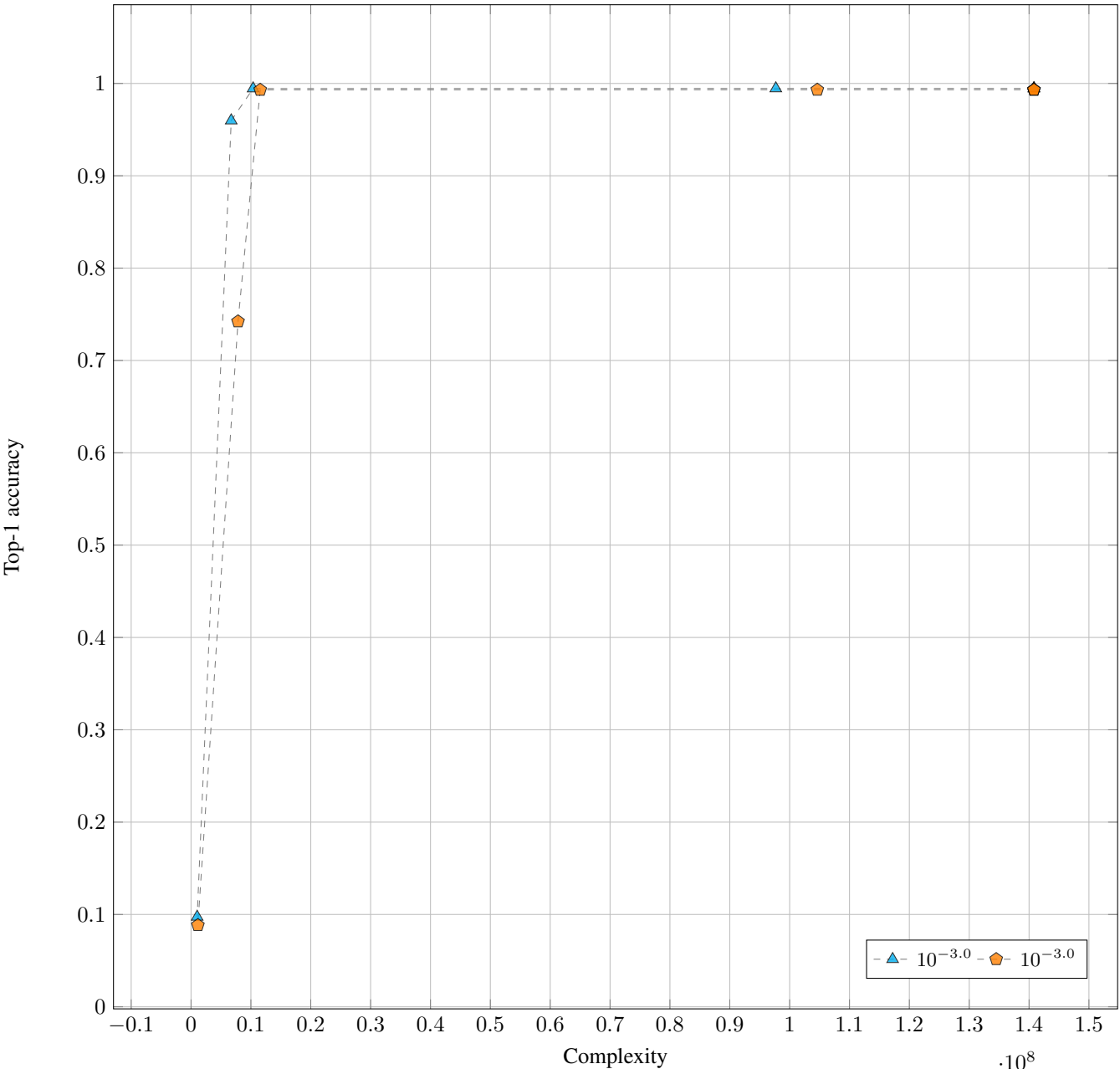


Figure 6. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 5×5 kernels - Convexity testing

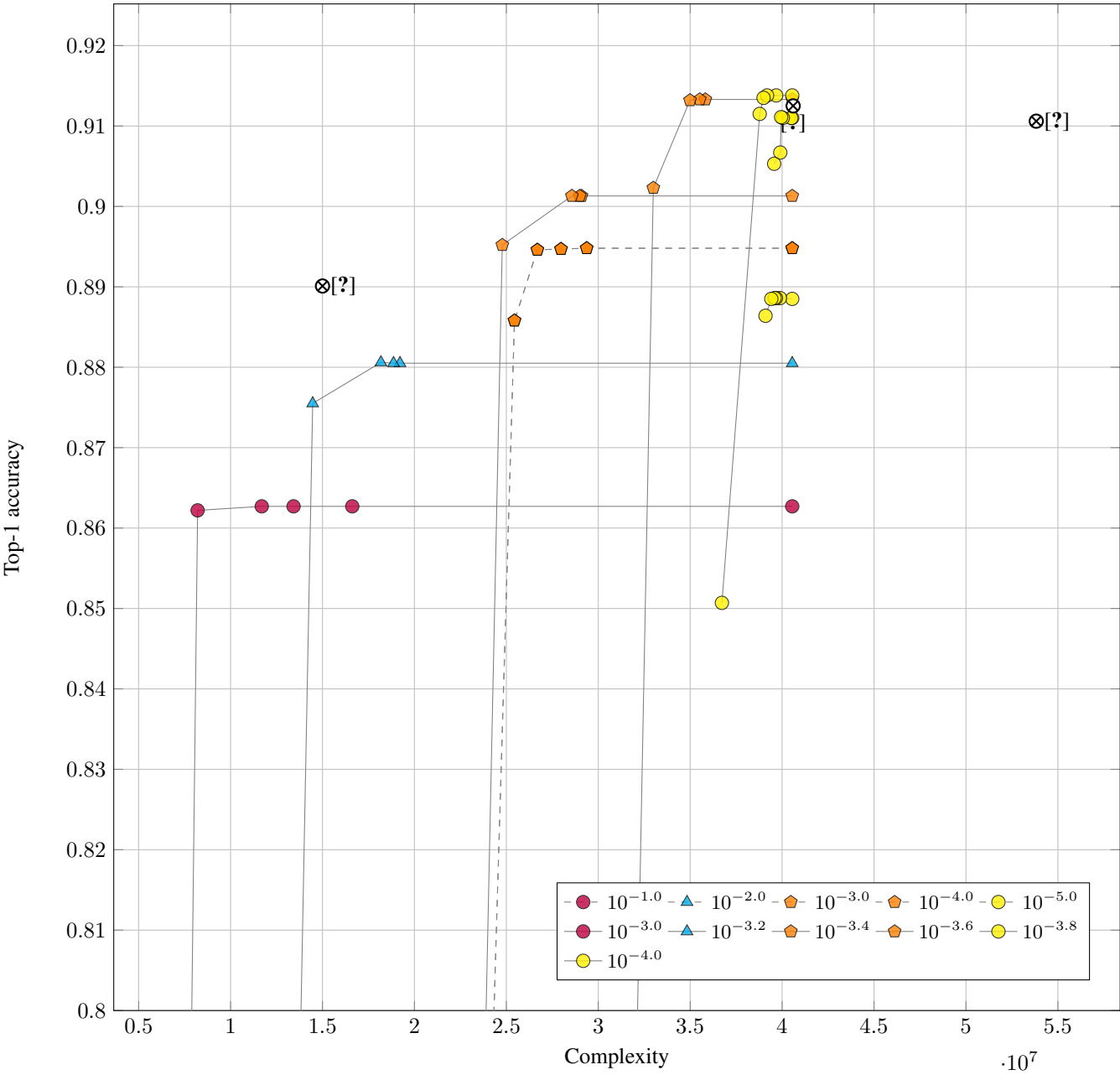


Figure 7. Complexity vs. accuracy on CIFAR10. Resnet - 20 layers - 3×3 kernels

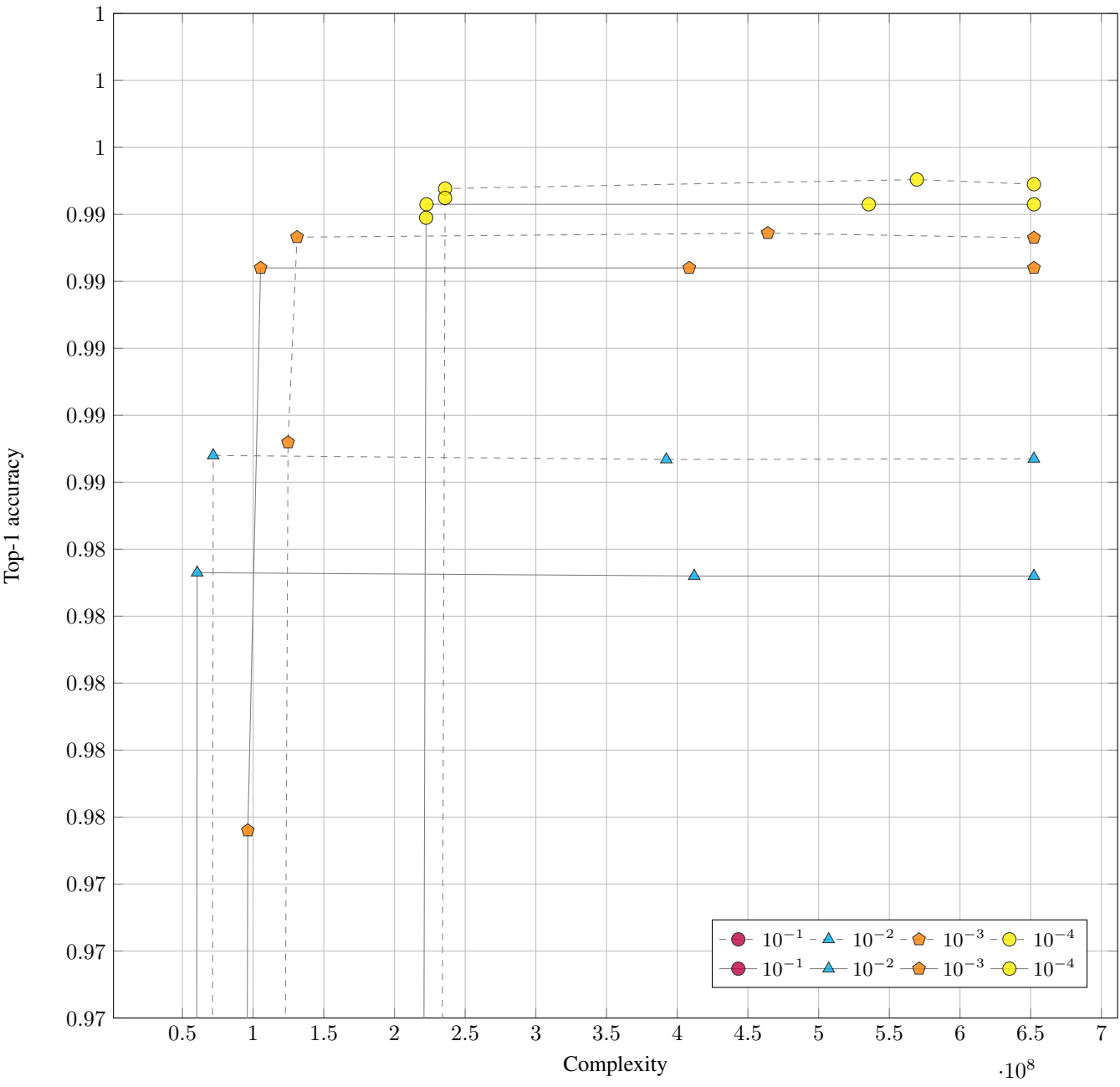


Figure 8. Complexity vs. accuracy on MNIST. Resnet - 3 layers - 20×20 kernels - square width. Shape and Size regularization comparison

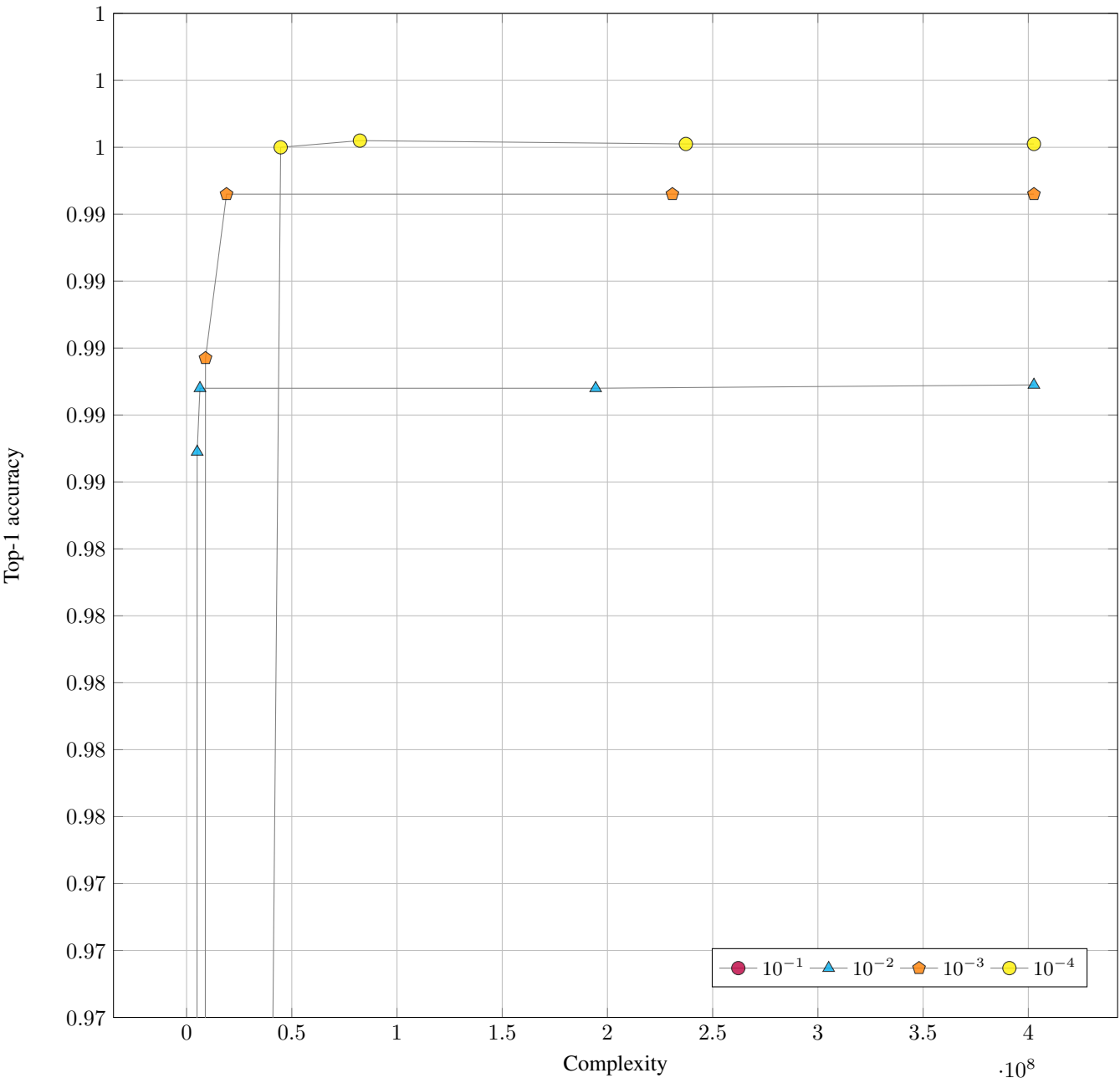


Figure 9. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 5×5 kernels - square width. Size and Shape regularization comparison

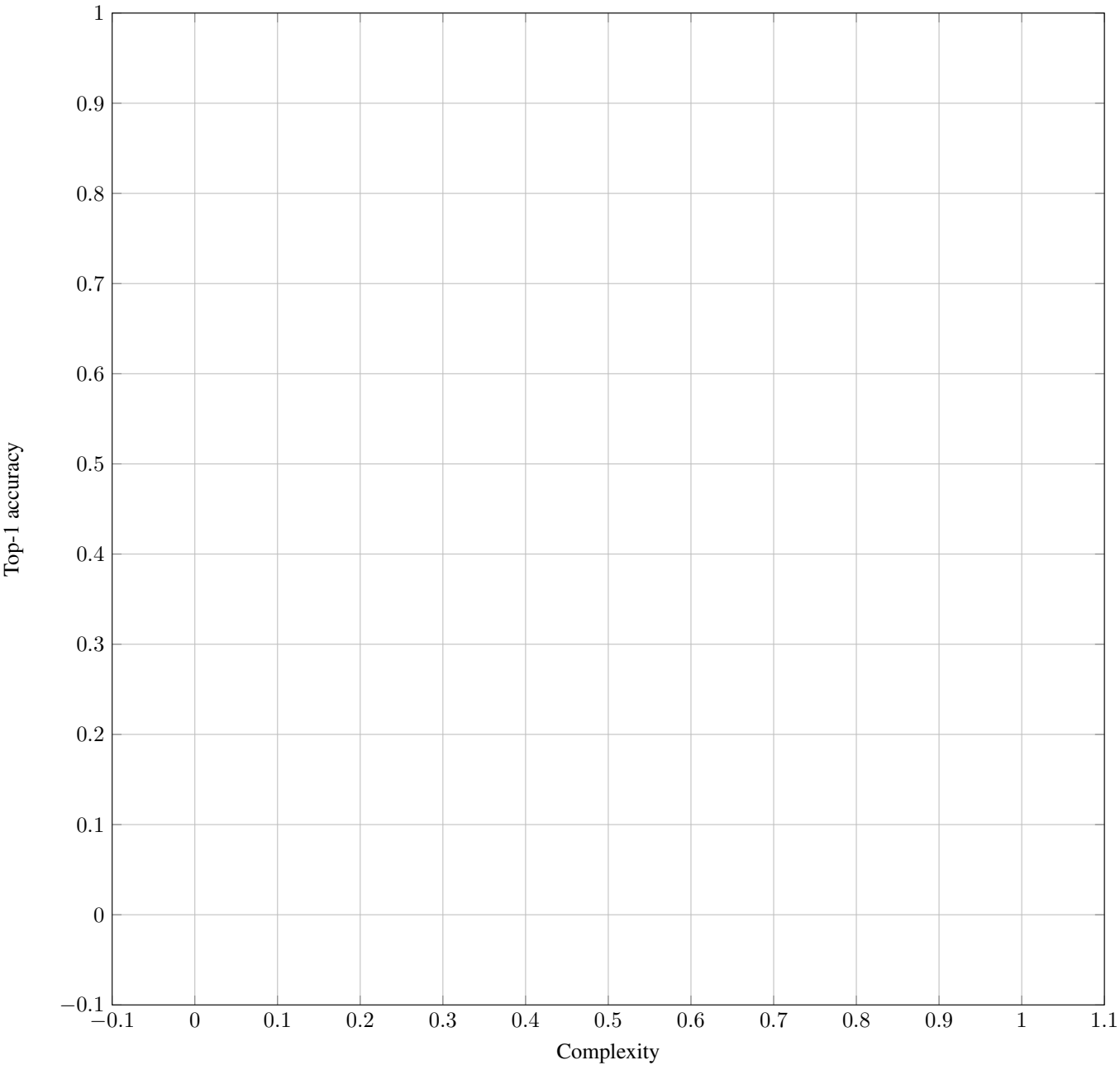


Figure 10. Complexity vs. accuracy on MNIST. Resnet - 4 layers - 20×20 kernels - square width. Complexity and Normalized complexity comparison

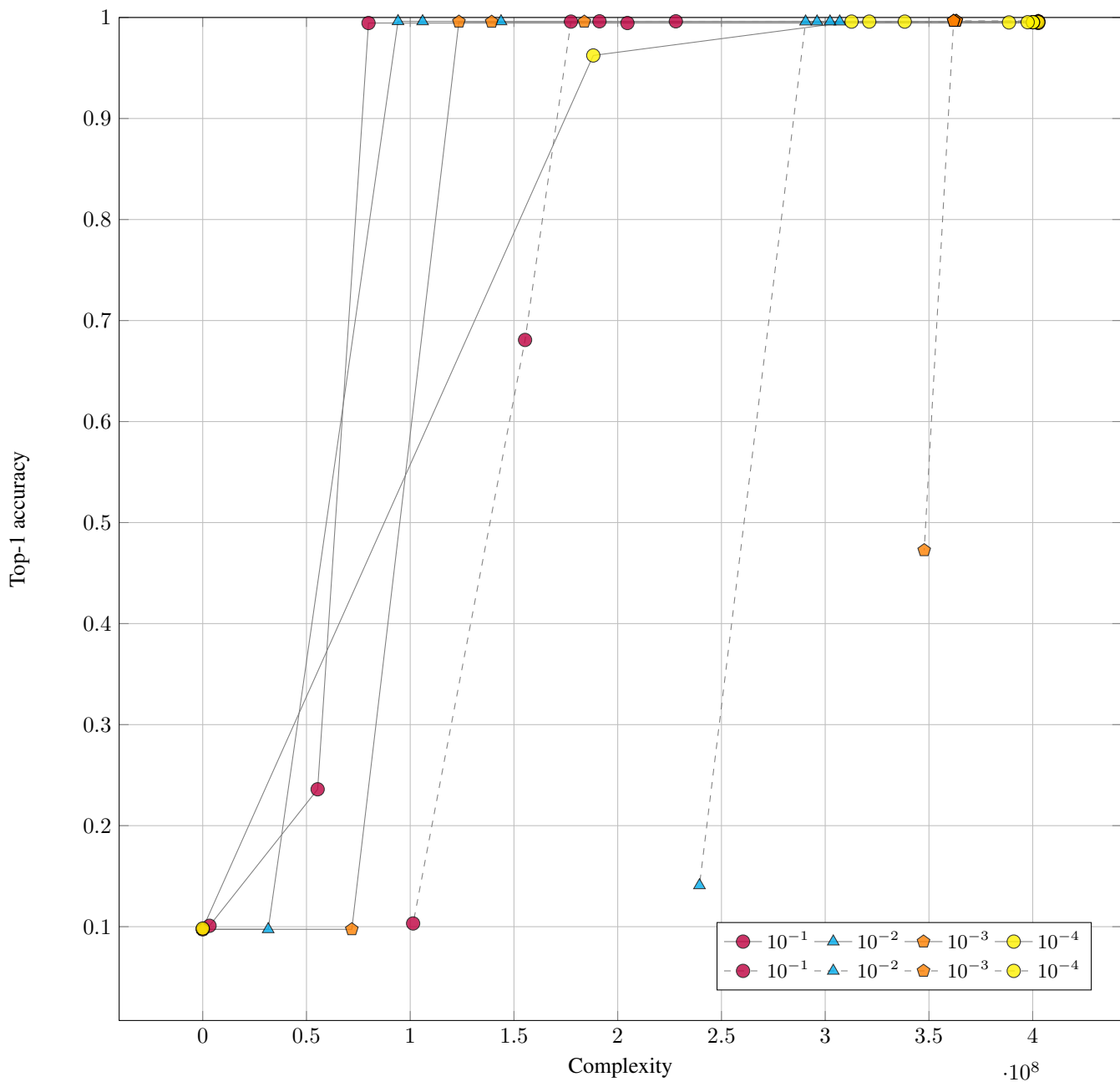


Figure 11. Complexity vs. accuracy on MNIST. Resnet - 10 layers - 5×5 kernels - square width. Complexity and Normalized complexity comparison