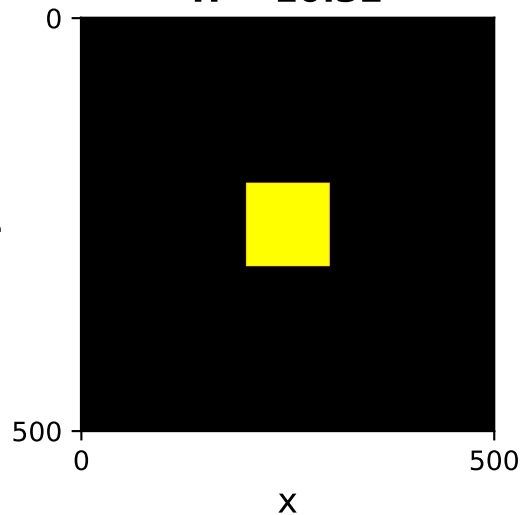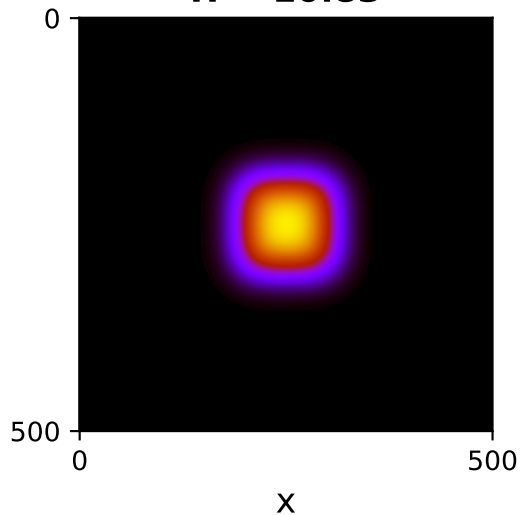Entropy comparison for smoothed models