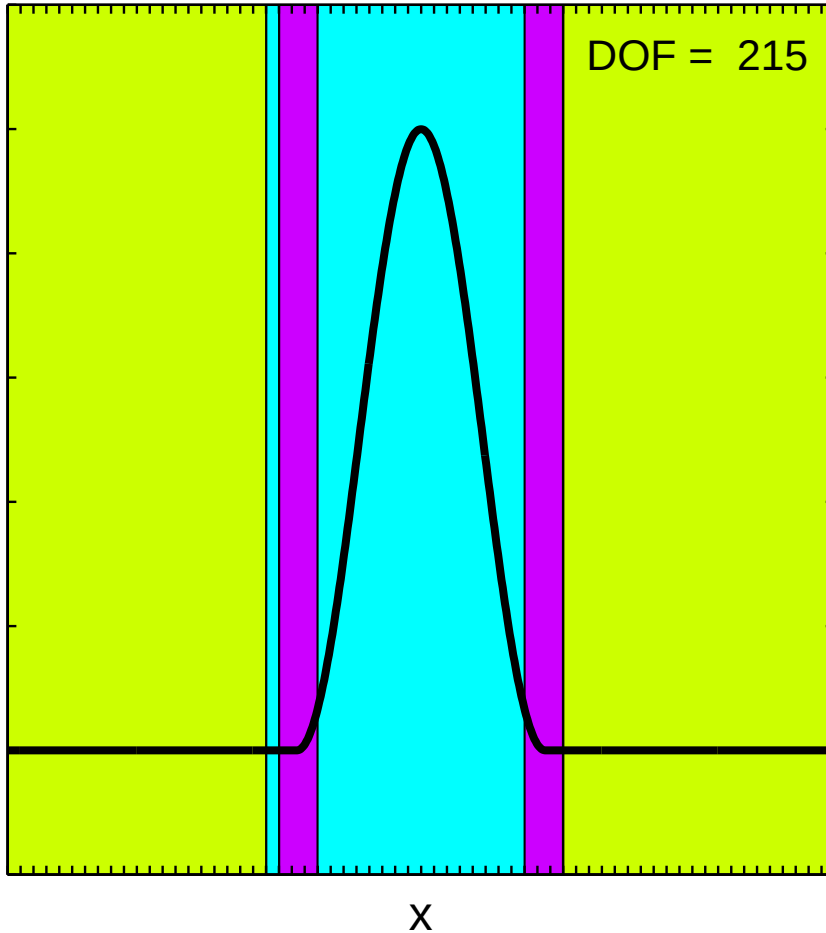output at time T=5