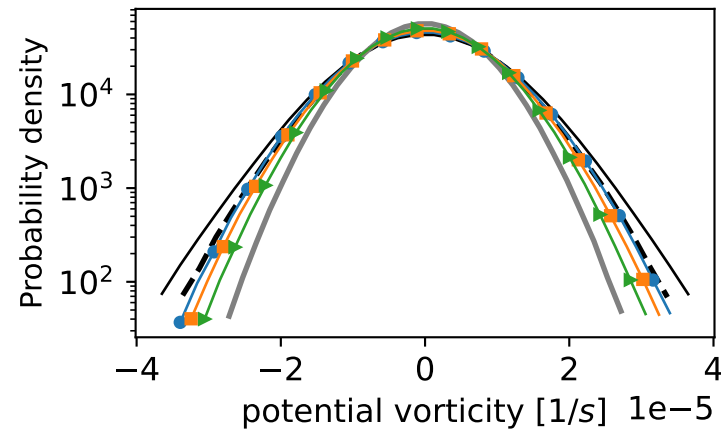
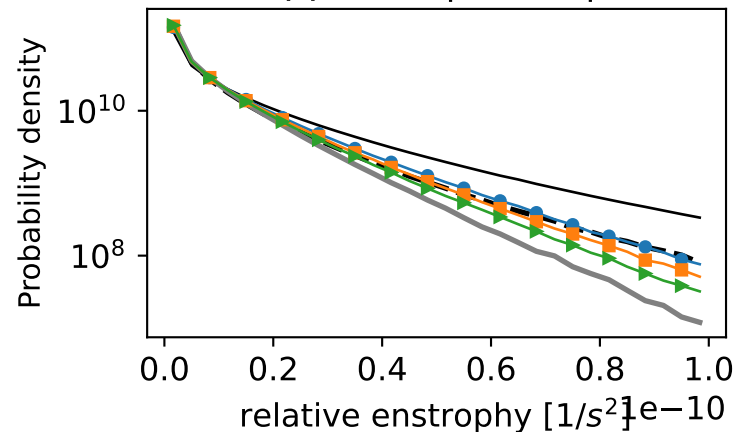
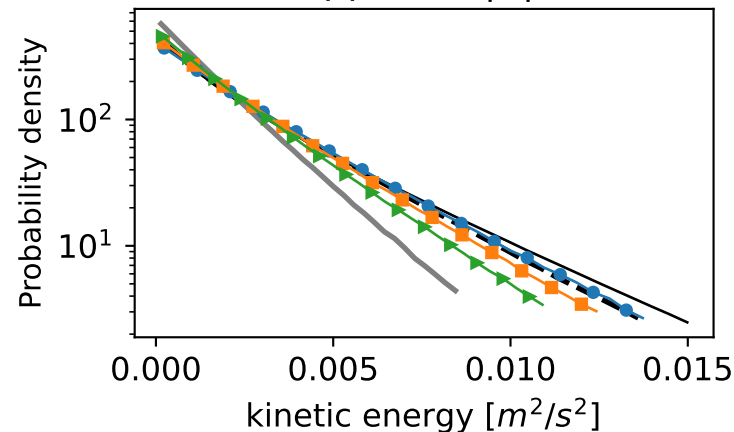
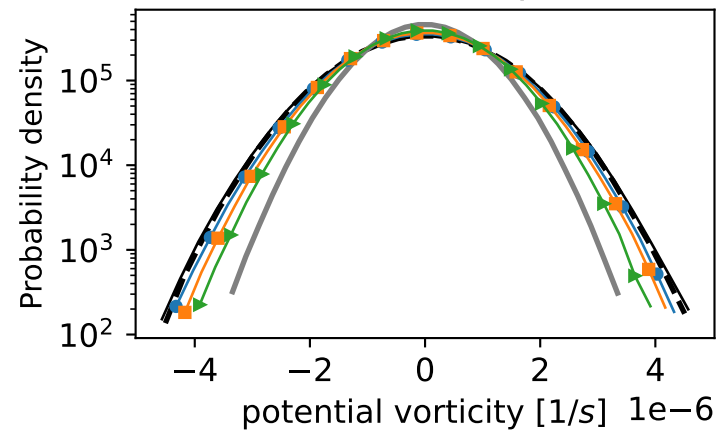
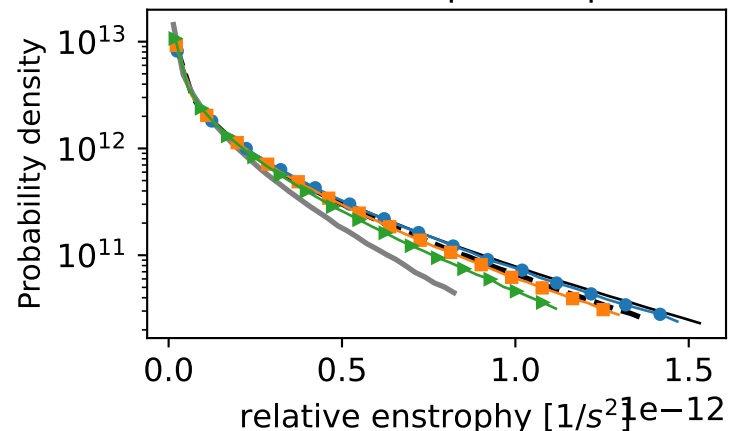


Upper PV q Upper $1/2|\text{curl}(\mathbf{v})|^2$ Upper $1/2|\mathbf{v}|^2$ Lower PV q Lower $1/2|\text{curl}(\mathbf{v})|^2$ Lower $1/2|\mathbf{v}|^2$ 