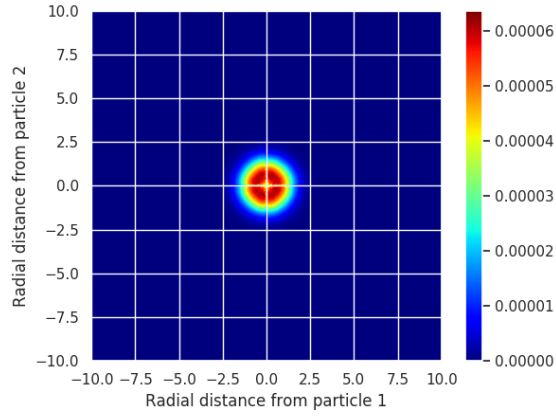
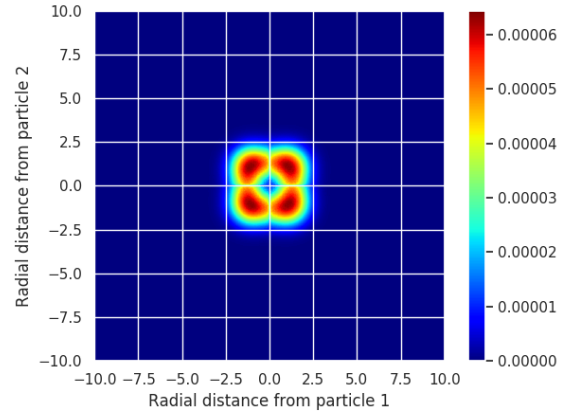


## 1 Two-body densities

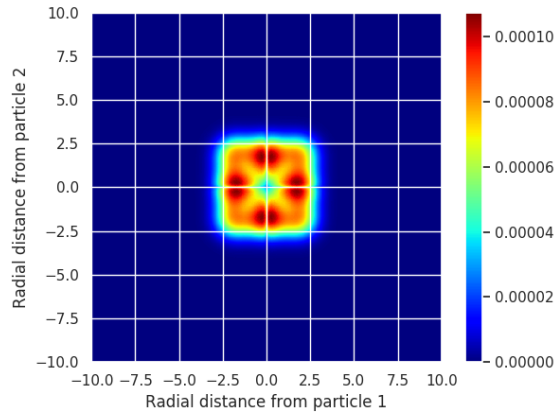
Two-body density plots produced by a standard Jastrow-Slater wave function using variational Monte-Carlo for 2-72 particles are presented below.



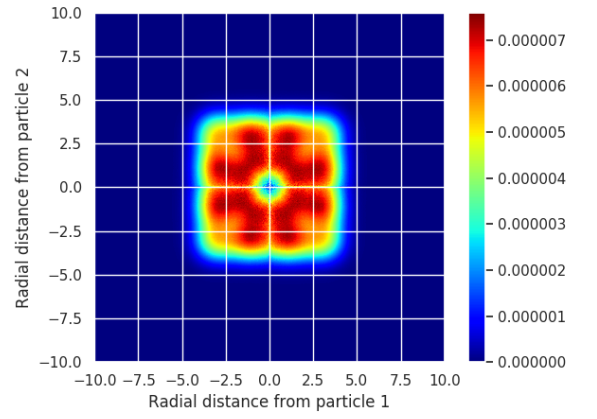
(a) 2P,  $\omega = 1.0$



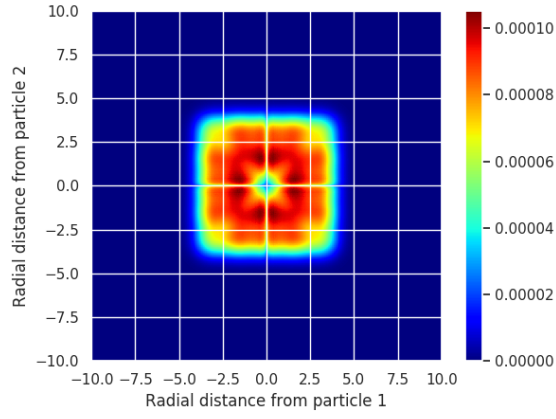
(b) 6P,  $\omega = 1.0$



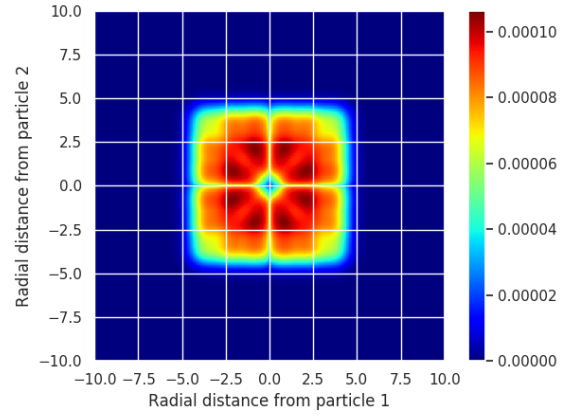
(c) 12P,  $\omega = 1.0$



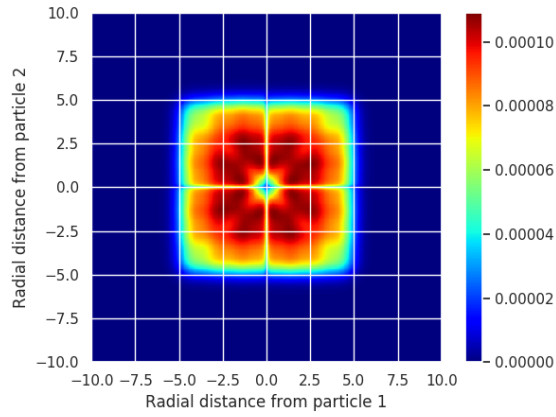
(d) 20P,  $\omega = 1.0$



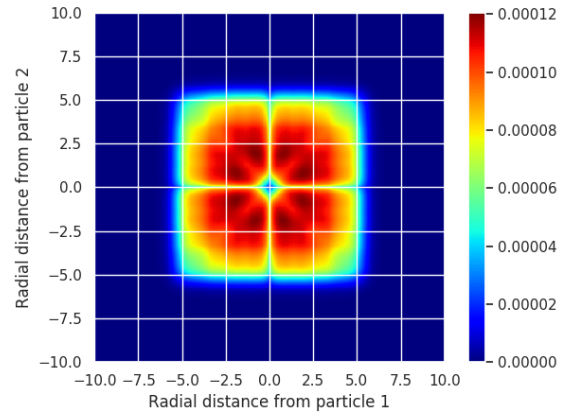
(a) 30P,  $\omega = 1.0$



(b) 42P,  $\omega = 1.0$



(c) 56P,  $\omega = 1.0$



(d) 72P,  $\omega = 1.0$