

Figure 1: Amount of RAM required per replica (in GB) as a function of the size of \mathcal{A}_N^{n+} clusters (N= number of particles, n= number of charged particles, $n\leq N$). Three types of clusters are tested: neutral (n/N=0) and "fully-charged" (n/N=1) clusters are plotted as filled black circles, other charged clusters (n/N=0.5 here) are plotted as filled red squares. Orange dashed lines are added to better identify the maximum cluster sizes on servers with 1 GB and 2 GB per CPU core, respectively. These tests have been performed on a HP Z800 workstation composed of 2 Intel Xeon X5670 2.93 GHz processors and 24 GB of RAM.