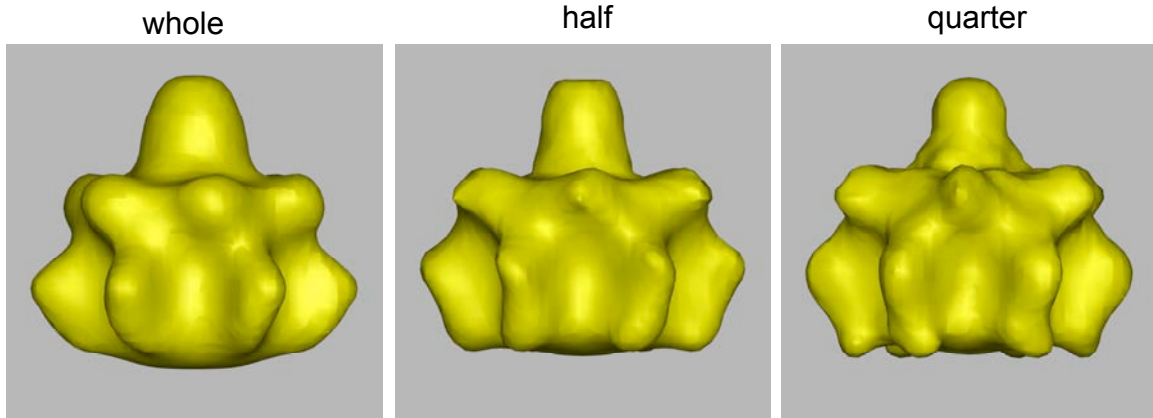


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**Fig. S7. Resolution is limited by particle heterogeneity, not the number of images included.** Vta1-Vps4 reconstructions using all, half, and a quarter of the images are shown, all contoured at 824 kDa. Even the quarter-data-set reconstructions converged, as indicated by the clear similarity of model projections and final class averages. The resolution, as assessed by comparing the two half-data sets was 38 Å (one data point), while the six independent comparisons of quarter-data sets yielded resolutions just slightly worse, between 39-41 Å. Thus the heterogeneity of the particles, rather than the total number of images included, is the principle resolution limitation.