Electronic Supplementary Material (ESI) for Soft Matter.

Supplementary material for "Self-assembly of "Mickey Mouse" shaped colloids"

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This Supplementary Information file contains Supplementary Figures S1 to S3. Fig. S1 and S2 show the structure morphology at too high depletant concentration for $\phi_{\text{particles}} = 0.003$ and 0.01, respectively. Fig. S3 shows an overview of typical tube-like clusters found as a result of specific interaction between the Mickey Mouse particles. The Supplementary Movie M1, which is available as a separate file, shows a full scan through the sample in the z-direction in the field of view of Fig. S3.

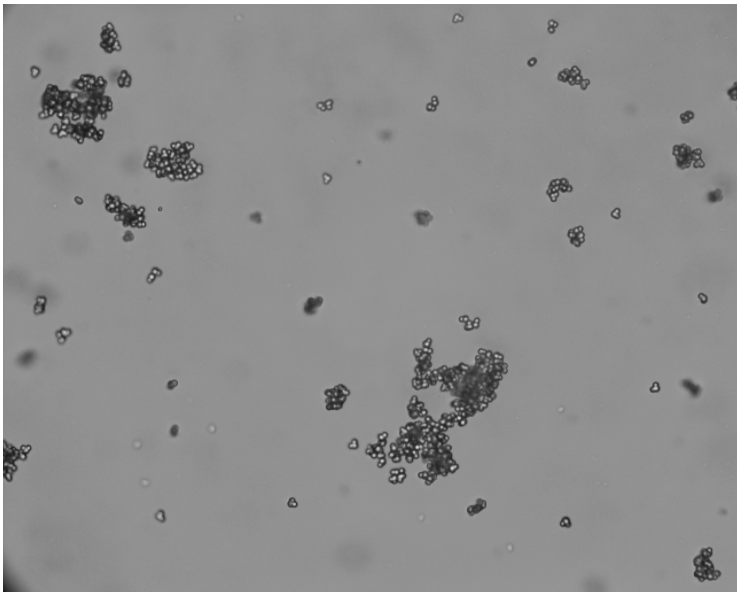

Fig. S 1: Optical microcraph using a 40× air objective of a sample with $\phi_{\text{particles}} = 0.003$ and $\phi_d = 0.40$ ($\varepsilon \approx -17\ k_{\text{B}}T$) showing aspecific binding and amorphous aggregates

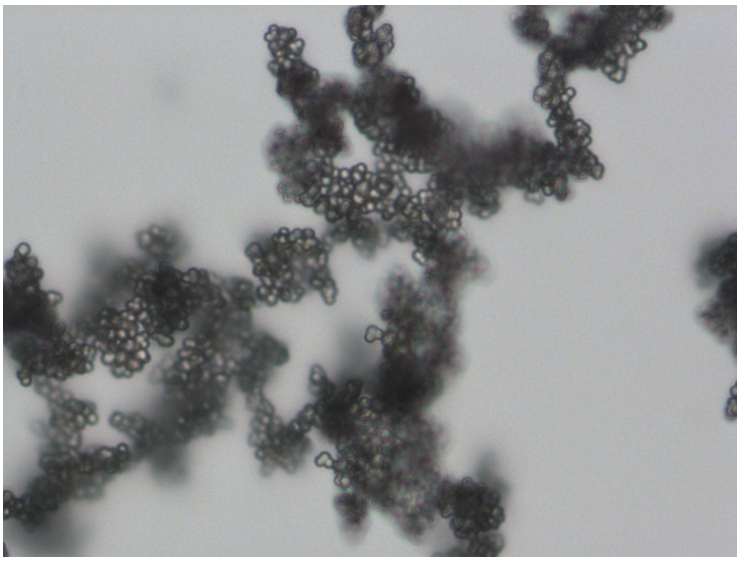

Fig. S 2: Optical microcraph using a 60× air objective of a sample with $\phi_{\text{particles}} = 0.01$ and $\phi_d = 0.32$ ($\varepsilon \approx -13\ k_{\text{B}}T$) showing aspecific binding into big percolated clusters of particles

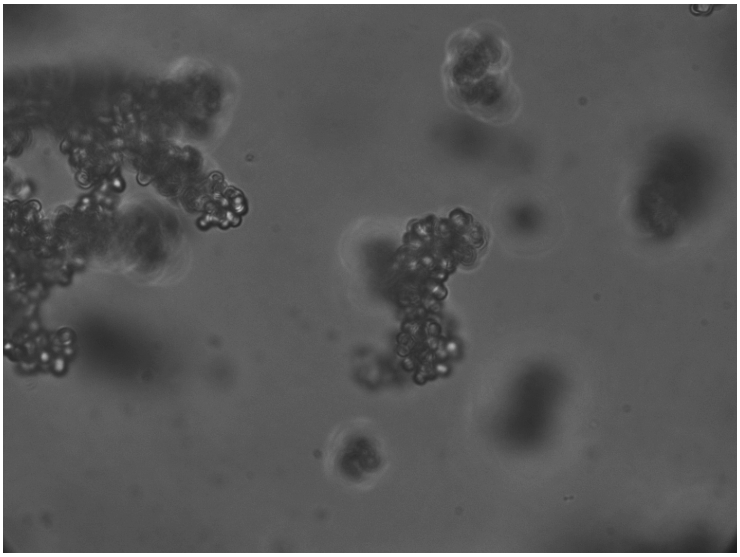

Fig. S 3: Optical microcraph of a sample with $\phi_{\text{particles}} = 0.01$ and $\phi_d = 0.21$ ($\varepsilon \approx -7\ k_{\text{B}}T$) showing elongated clusters of a well-defined diameter and different lengths moving in and out of the focal plane. A full scan through this field of view in the z-direction is provided in Supplementary Movie 1