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Self-assembly of colloidal surfactants

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We developed colloidal dumbbells with a rough and a smooth part, based on a method reported in Ref. [1]. Specific attraction between the smooth parts occurs upon addition of non-adsorbing polymers of appropriate size. We present the first results in terms of the assemblies that emerge in these systems.

[1] D.J. Kraft, W.S. Vlug, C.M. van Kats, A. van Blaaderen, A. Imhof and W.K. Kegel, *Self-assembly of colloids with liquid protrusions*, J. Am. Chem. Soc. **131**, 1182, (2009)