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Self-assembly and manipulation of particles on drop surfaces M. JANJUA, American University in Dubai, I.S. FISCHER, P. SINGH, NJIT — We have recently shown that particles adsorbed on the surface of a drop can be self-assembled at the poles or the equator of the drop by applying a uniform electric field, and that this method can be used to separate on the surface of a drop particles experiencing positive dielectrophoresis from those experiencing negative dielectrophoresis. In this talk we show that the frequency of the electric field is an important parameter which can be used to modify the distribution of self-assembled monolayers.

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