

### Dipole&Induced Dipole interaction in colloidal system

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The properties of the macroscale of the colloidal material can be predicted through experiments through the interaction of individual particles in the microscale. Especially, the mechanism by which particles are adsorbed at the interface is important in the Pickering emulsions, which are stabilized by solid particles. Previous studies have shown that when the particles are adsorbed at the interface, they are affected by the salt concentration and the geometric effect. [1,2]. In this experiment, the interaction between the particles adsorbed at the interface and the particles located in the single fluid phase is measured, and the mechanism of the particles according to the number of particles adsorbed at the interface can be examined. Furthermore, we can predict the correlation between Pickering emulsions and particle in the fluid.

#### References

[1] D. W. Kang, J. H. Lim and B. J. Park, *Soft Matter*, 2017, 13, 6234–6242

[2] D. W. Kang, B. G. Park, K. H. Choi, J. H. Lim, S. J. Lee, and B. J. Park, *Langmuir*, 2018, 34 (30), 8839–8847