

Abstract Submitted  
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**Dynamics of colloidal particles sticking to an oil-water interface**

RYAN MCGORTY, Harvard University, Physics Department, D. M. KAZ, V. N. MANOHARAN — We observe micron sized colloids as they adsorb to an oil-water interface. We make a flat oil-water interface and can use an optical trap to bring particles from either phase to the interface. Using digital holographic microscopy, colloids are tracked as they encounter and stick to the interface. We observe particles slowly adsorbing to the interface over the course of seconds. We also observe the dynamics of stuck particles and track their out-of-plane motion.

Ryan McGorty  
Harvard University, Physics Department

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