

# Foams stabilised by particles

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Foams are dispersions of bubbles in liquids (or solids). We will discuss the case of aqueous foams stabilized by colloidal particles. These foams can be extremely stable (as the "Pickering" emulsions). We will describe the different destabilisation mechanisms : gravity drainage, coarsening (gas diffusion from small to large bubbles) and coalescence, showing how particles can affect these mechanisms. We will discuss the relevance of the surface viscoelasticity concept and present measurements using particle layers at the air-water interface.