

Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

**Random sequential adsorption of monomers with evaporation:
exact results and application to ionic self-assembly** ANDREW SEREDINSKI, ERIC SCHWEN, BRAIN SIMPSON, VINCENT KIM, Washington and Lee University, CARLOS DA FONSECA, Universidade de Coimbra, H.T. WILLIAMS, IRINA MAZILU, DAN MAZILU, Washington and Lee University — We present an exact solution for the time-dependent particle density for a general random sequential adsorption model with evaporation. We relate this model to the experimental technique of ionic self-assembly of nanoparticles. We discuss the usefulness and the limitations of our model by comparing it to both Monte Carlo simulations and experimental results.

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Date submitted: 15 Nov 2013

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