Abstract Submitted
for the MAR12 Meeting of
The American Physical Society

Packing fraction of dimers and anisotropic objects TAISHAN ZHU, YULIANG JIN, HERNAN A MAKSE, Levich Institute and Physics Departement, the City College of New York, New York, NY 10031, USA, MAXIMILIEN DANISCH, ENS, Cachan, ADRIAN BAULE, School of Mathematical Sciences Queen Mary, University of London — We present a statistical theory and computer simulations for the calculation of the average volume in jammed assemblies of dimer shaped objects and other anisotropic particles like spherocylinders. The theory predicts the volume fraction as a function of the coordination number of the particles.

Yanqing Hu
Levich Institute and Physics Departement, the City College of New York

Date submitted: 11 Nov 2011 Electronic form version 1.4