A Game of Order Parameters - Crystal Nucleation



Figure 1: Espinosa *et al* JCP, **2016**, 144, 034501. Nucleation rates of mW water, obtained from various studies

- Current nucleation data differs by orders of magnitude, with little/no uncertainty quantification
- Unclear if choice of order parameter (mathematical object defining crystalline cluster) impacts on this



system, and investigate the effect of different order parameters

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at two different volumes as a function of the cluster size of

the interface (λ_0)

Previously unknown size dependence of flux through initial interface.



