

## ***Strong-coupling approaches for counterions near a planar interface : which single particle picture ?***

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We consider a polarizable charged planar interface, neutralized by mobile counterions. The case of repulsive images is studied in the strong-coupling (SC) regime. For extremely large electrostatic couplings where a Wigner crystal forms, a SC expansion can be worked out. However, relevant couplings, while not small, are always way below the crystallisation transition. To address these cases, we put forward a correlation hole SC approach. It relies on a (dressed) single particle picture, and its predictions are in excellent agreement with Monte Carlo simulations for all dielectric discontinuities.