## Water at electrochemical interfaces: interfacial pH and acid-base properties

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The interface between a model Pt(111) electrode and an electrolyte in absence of specific adsorption will be discussed. By using non-traditional strategies, the potentials of zero total and free charge can be determined. The dependence of these magnitudes with pH suggest that the pzfc is always constant and suggest a neutral interfacial equilibrium at significantly more acidic solutions. In a similar way, the surface pK of weak acids is lower than that measured in bulk solution, indicating a higher dissociation ability.