**NF Draft**

**Model and Theory (abbreviated)**

To obtain microscopic information of the protein brushes such as monomer density distributions, a polyelectrolyte continuous-space self-consistent field theory is employed. While the key process is outlined here, the details can be found in a previous work. In a semicanonical ensemble, the constituent proteins are modeled as charged block macromolecules immersed in a monovalent salt solution and grafted upon a non-interacting substrate.

**Results and Discussion**

*Pure brush*

*NFH Del2*