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**Casimir Effect and its Applications to Biophysics** PHU NGUYEN, University of Houston Clear Lake, MIKE CABRERA, Univ. of Houston Clear Lake, CHANNING MOELLER, SAMINA MASOOD, University of Houston Clear Lake — The Casimir Effect is re-examined at finite temperature and density. The Casimir force is computed with different parameters to study its applications to physical systems like carbon nanotubes and even the protein folding. In the protein folding we compare the Casimir force with the Vander Waals forces and the hydrophobic interaction.

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