

Fig.1 The component of velocities of particles moving along slanted IDEs system. The results show lower velocities for 5, 10 and 15 μm beads and a higher velocity for 3 μm bead. The resulting coefficients are obtained to revise Stokes formula accordingly.

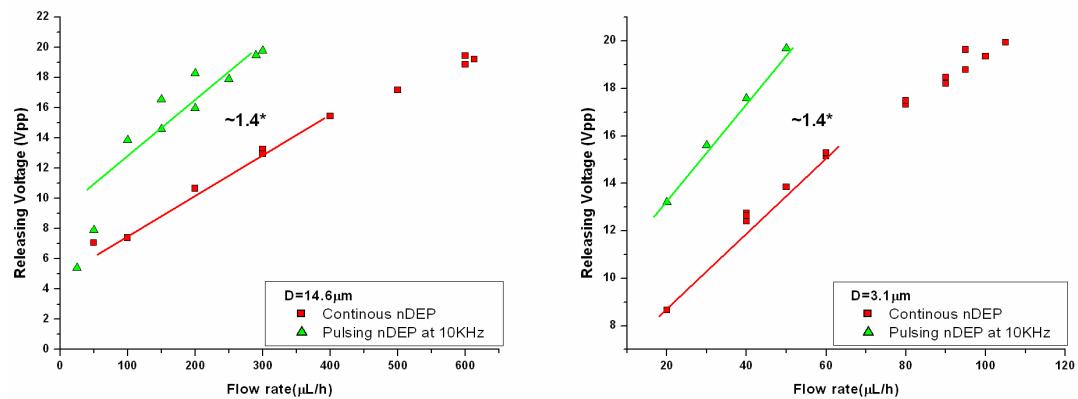


Fig.2 The comparison of continuous nDEP and pulsed nDEP with 10 KHz modulation frequency for 15 μm (left) and 3 μm (right) beads. Time-average strength of pulsed nDEP is about 1.4X lower than continuous nDEP.