
臺灣大學應用力學研究所
演 講 公 告

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講 題：Electrostatic charging: the source of the missing force on
moving drops

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Electrostatic charging: the source of the missing force on moving drops

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Although wetting phenomena have been studied for more than 200 years, many fundamental questions are not fully understood. For example, the speed of a water drop moving down an inclined plane cannot be predicted. Still significant progress has been made in the last decade, in particular with respect to dynamic wetting. The aim of the presentation is to draw attention to some new developments, in particular on the influence of charging.

1. Stetten, A., D.S. Golovko, S.A.L. Weber & H.-J. Butt: Slide electrification: Charging of surfaces by moving water drops. *Soft Matter* **2019**, *15*, 8667.
2. Li, X. et al.: Spontaneous charging affects the motion of sliding drops. *Nature Physics* **2022**, *18*, 713.