

# Editoria - marzo 2020

📅 26-03-2020 ↗ <http://www.primapagina.sif.it/article/1089>

## Il Nuovo Cimento Vol. 42 N. 6 (2019)

### Les Rencontres de Physique de la Vallée d'Aoste - La Thuile 2019

Edited by *M. Greco*

The 2019 Rencontres de Physique de la Vallée d'Aoste were held at the Planibel Hotel of La Thuile, Aosta Valley, on March 10–16, with the XXXIII edition of "Results and Perspectives in Particle Physics". The physics programme included various topics in particle physics, also in connection with present and future experimental facilities, as cosmology and astrophysics, dark matter and neutrino physics, heavy flavours, *CP* violation and rare decays, electroweak and hadron physics with  $e^+ e^-$  and hadron colliders, Higgs physics, searches for new physics and prospects at future facilities.



## EPJ E – Highlights

### Drag force on a particle straddling a fluid interface: influence of interfacial deformations

*J.-C. Loudet, J. Hemauer, J.J. Feng*

Some intriguing physics can be found at the interfaces between fluids, particularly if they are straddled by particles like proteins or dust grains. When placed between un-mixable fluids such as oil and water, a variety of processes, including inter-molecular interactions, will cause the particles to move around. These motions are characterised by the drag force experienced by the particles, which is itself thought to depend on the extent to which they distort fluid interfaces. So far, however, experiments investigating the intriguing effect haven't yet fully confirmed the influence of this distortion. In new research published in EPJ E, a team led by Jean-Christophe Loudet at the University of Bordeaux, France, showed that the drag force experienced by fluid-straddling particles is less affected by interface distortion than previously believed.

