







Laboratoire de Mécanique des Contacts et des Structures

The Phonebook Enigma

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Fig.1: Lifting a car with Phonebook



Fig.2: Lifting a car with Phonebook

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Many of us are familiar with a classical demonstration of the strength of friction. Take two phonebooks, interleave their sheets and try to separate them by pulling on their spines. Almost impossible! This has been carried out spectacularly by attempting to pull the books apart with lifting a car, and even two military tanks, only to fail and suggest that the inner friction between the sheets prevails. In this talk, we propose a solution to that popular enigma. The study of this complex network provides insight into friction with some connections to MEMS, mooring a ship, interactions between DNA and bacteriophage capsid, and even a toy known as the Chinese finger trap.

Jeudi 14 Février à 13h, Salle Bellecour bât. Sophie Germain, INSA