

The Physics Experiments of Robert Wichard Pohl (1884–1976)

For decades, Robert Wichard Pohl taught his famous lectures of introductory physics in the old lecture hall of the Physics Institute at Goettingen University. These lectures became the foundation for three volumes entitled „Introduction into Physics“. Now, using Professor Pohl's original instruments in the same lecture hall in which he taught, this set of videos captures his extraordinary ingenuity and once more brings to life Pohl's great experimental skills.



Soap bubbles in an electric field

Video title: Soap bubbles in an electric field
Signature: C 14867
Series title: The Physics Experiments of Robert Wichard Pohl (1884-1976)
Abstract: The repulsive force between two bodies carrying charges of the same sign will be demonstrated.
Source: Pohls Einführung in die Physik - Elektrizitätslehre und Optik. Lüders, Klaus; Pohl, Robert Otto (Hrsg.) 22. Aufl., 2006, Springer Berlin Heidelberg New York; p. 52
Key words: Electric charges, forces

Goal of the experiment: A qualitative demonstration of the forces between electric charges.
Experimental setup: A soap bubble and a metal sieve are being charged at the same terminal of an electrostatic generator.
Experiment: When the repulsive force between the soap bubble and the sieve becomes large enough, the bubble tears lose and can now be kept aloft by the sieve. It can also be carried through the lecture hall.

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Production and Distribution: IWF Wissen und Medien gGmbH, <http://www.iwf.de>, © IWF Goettingen 2006

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KNOWLEDGE AND MEDIA