Laboratory Iv Millikan Oil Drop Experiment

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MILLIKAN OIL DROP EXPERIMENT The experiment was devised by American physicist Robert A. Millikan in 1909. Mil-likan wanted to determine whether electric charges occurred in discrete units which were integral multiples of some Page 13/46

smallest charge e (which turns out to be carried by an electron or proton), and to measure that charge.

LABORATORY IV
MILLIKAN OIL DROP
EXPERIMENT
Laboratory IV:
Millikan Oil Drop
Experiment In
summary, a
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measurement of 0 and use of Eq. 5 leads v to a determination of r. and further measurements of v + and v-, enable us to determine the charge q on the bead. Setting up the equipment NOTE! The power should be turned off when any Page 15/46

adjustments of the apparatus are be-

LABORATORY IV MILLIKAN OIL DROP **EXPERIMENT** Laboratory Iv Millikan Oil Drop Laboratory IV: Millikan Oil Drop Experiment Eq. 3 is Stokes Law. relating the radius of a spherical body

to its terminal velocity as it falls in a viscous medium. Ff mg Stokes' Law, however, becomes incorrect when the velocity of fall of the droplets is less than ~0.1 cm/s.

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EXPERIMENT The experiment was devised by American physicist Robert A. Millikan in 1909. Mil- likan wanted to determine whether electric charges occurred in discrete units which were integral multiples of some smallest charge e Page 20/46

(which turns out to be carried by an electron or proton), and to measure that charge.

Laboratory Iv Millikan Oil Drop Experiment The Oil Drop Experiment was performed by the American physicist Robert A Millikan in

1909 to measure the electric charge carried by an electron. Their original experiment, or any modifications thereof to reach the same goal, are termed as oil drop experiments, in general. Oil Drop Experiment

Millikan's Oil Drop Experiment -Science Facts Millikan Oil Drop Lab. In this lab you will be looking for oil drops that can caught in the electric field between two capacitor plates. Some drops will fall out of your field of view as the Page 23/46

gravitational force on them is larger than the electric force. Other drops will rise out of your field of view as the gravitational force is too small for the electrical force.

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wanted to n Oil determine whether electric charges occurred in discrete units which were integral multiples of some smallest charge e (which turns out to be carried by an electron or Laboratory Iv Millikan Oil Drop Experiment Page 29/46

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an electric field and then lowering it again. To raise it you apply ant constant electric field on the drop that forces it upward. To lower the drop you can either turn off the electric field and just le t it fall or you can reverse the

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Millikan Oil Drop Experiment Millikan's Oil Drop Experiment. It was always important to measure the charge of an electron, Millikan's ingenious experiment is available here for students to do themselves. They must find a drop, Page 39/46

and then find a voltage which will cause it to hover. Students will then measure the terminal velocity when it falls freely.

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successful. As understood, success does not suggest that you have astounding points.

Laboratory Iv Millikan Oil Drop Experiment For these reasons we have undertaken to revisit the Millikan Page 42/46

oil drop experiment and to investigate whether the value of the elementary charge has changed since Millikan's measurements were carried out and whether Millikan really knew how to do experimental physics. Page 43/46

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The Milikan Oil Drop Experiment -K-State Physics source in Millikan's original experiment, oil droplets were sprayed into the settlement chamber from the atomiser, acquiring excess electrons via friction with the Page 44/46

nozzle. With the cover plate closed to prevent any loss of oil droplets, the oil droplets then fell through the small hole in the settlement chamber, and again into

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