On The Elementary Electrical Charge Robert Millikan

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The experiments herewith reported were undertaken with the view of introducing certain improvements into the oil–drop method of determining the elementary electrical charge, e, and the number of molecules per gram molecule, N, and thus obtaining a higher accuracy than had before been possible in the evaluation of these most fundamental constants. This is a recording of the original paper published in the Physical Review, Vol. II, No. 2.

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TABLE XXI.

| Elementary electrical charge | | = | 4.774 | + | .009 | X 1 | 0-10 |
|---|----|---|--------|-------|------|-----|------|
| Number of molecules per gram molecule | N | - | 6.062 | ale: | .012 | X1 | 023 |
| Number of gas molecules per c.c. at 0° 76 | n | - | 2.705 | ske | .005 | XI | 000 |
| Kinetic energy of a molecule at 0° C | E | - | 5.621 | # | .010 | XI | 0-4 |
| Constant of molecular energy | ė | = | 2.058 | ele . | .004 | X1 | 0-16 |
| Constant of the entropy equation | k | = | 1.372 | # | .002 | X1 | 0-16 |
| Elementary "Wirkungsquantum" | h | - | 6,620 | + | .025 | X1 | 0-27 |
| Constant of the Wien displacement law | Ca | = | 1.4470 |) sk | 003 | 0 | |

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