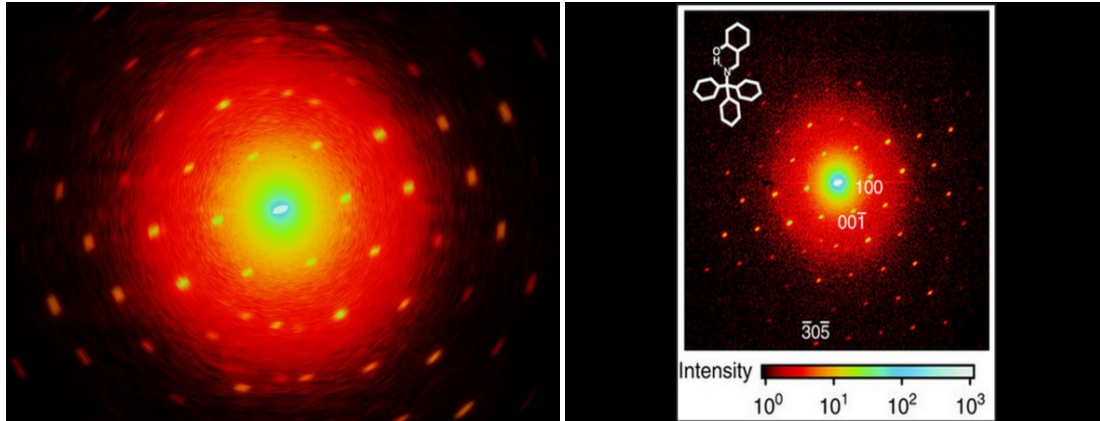


Atomic Structure

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Abstract: this article shows a new atomic structure which has been proved by related and independent experiments.



If ultrashort electron pulses hit a bimolecular crystal, they are diffracted from it. As a result, one obtains a characteristic diffraction image of the atomic structure. Credit: Graphic: Alexander Gliserin ^{[4][5]}

Main viewpoints and conclusions:

Atom, from the Greek word *atomos*, which means indivisible, was first conceived around 2,400 years ago by a Greek man named Democritus. An atom is the smallest constituent unit of ordinary matter that has the properties of a chemical element. Every solid, liquid, gas, and plasma is composed of neutral or ionized atoms. ^[1]

Every atom is composed of a nucleus and one or more electrons being bounding together by the electric field(isn't electromagnetic field);^[1] and, the nucleus has positive electric charges, every electron has a unit negative electric charge.

Within an atom, further and however, the all electrons-the all extranuclear charges is one kind of soft matter which has the same and consistent of negatively charged ingredient; at and in an unified and complete whole which with a single basic structure; existing in and filling completely the space outside the nucleus of the atom; under the thermal effect, and by the mutual electromagnetic interaction with the nucleus and others related, Formed: the nucleus is the sphere center of atoms; different distribution of volume *extranuclear electric-charged matter* densities, energy levels at and in the discrete states(energy levels quantized); from higher to lower since the inner to the outer; a concentric and multi-layer spherical pattern of volume *extranuclear electric-charged matter* densities distribution structure and energy levels existence form. ^{[2][3][4][5][6][7]}

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