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Textbook

Wolfgang Demtröder **Atoms, Molecules** **and Photons**

Light emitted from
atoms, molecules, and

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solids, under conditions of thermal equilibrium and in the absence of other external energy sources, is known as thermal light. Photon emission may also be induced by the presence of other external sources of energy, such as an external source of light, an electron current or a chemical reaction.

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Photonic molecules are a theoretical natural form of matter which can also be made artificially in which photons bind together to form " molecules ". They were first predicted in 2007.

Photonic molecules are formed when individual (massless) photons "interact with each other so strongly that they act as though they have mass".

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Electrons are attached around each atom and molecule so, they are the energy system of matter. Photons have a spin of one and are said to be massless. The electron creates the electromagnetic force of magnetism and electric force that provides electricity to power motors and all electrical devices.

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We are pleased to
announce the 13th
European Conference
on Atoms Molecules
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(ECAMP13) in Florence,
Italy, April 8-12, 2019.
The Conference venue
will be Fortezza da
Basso in the very heart
of the renaissance
town. The triennial
ECAMP conference
series, launched in

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1981, is the major
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present model of
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A very important issue

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of atomic physics is the interaction of atoms and molecules with electromagnetic radiation, which can be absorbed or emitted by these particles.

Photons, or “energy quanta,” are the constituents of electromagnetic radiation and are created or annihilated by matter.

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We are pleased to announce the 14th European Conference on Atoms Molecules and Photons (ECAMP14) in Vilnius, Lithuania, July 24-29, 2022. The triennial ECAMP conference series, launched in 1981, is the major conference of the Atomic, Molecular and Optical Physics Division (AMOPD) of the

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Photon is a bulk of energy while atom is made up of proton, neutron and electron. Photons can have energy according to its

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frequency, atom can have different number of proton, neutron and electrons. Photons always travel at the speed of light while atoms can vibrate within their equilibrium position.

What is the difference between a Photon and an atom? - Quora

Positive and negative electric charges attract each other, forming

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atoms, molecules, and
all that we usually refer
as matter. However,
negative charges repel
each other, and in
order to form atom ...

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