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The Quintessence of the Unified Physics

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The Quintessence of the Unified Physics

Radiation becomes active when its frequency changes.

Radiation intensity S = spatial distribution of the quantum power P :

$$\mathbf{S = \Delta P}$$

The single mutual interaction in Nature, the energy transfer (*or radiation*), is only possible (*becomes energetically active*), when the medium (*the environment through which the energy quanta propagate*) causes (*forces*) the radiation to change its frequency. Otherwise, the energy will propagate without any loss (*nothing else will change*).

$$\mathbf{\Delta S = df/dt}$$

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R\S	-2	0	2	4		
-2		$-4 \overset{\circ}{f}^2$ frequency square	$-2 \overset{=}{S}$ radiation intensity	$0 \overset{\circ}{P}$ power	$\Delta = \frac{1}{A}$	$\Delta = \frac{d1}{dA}$
-1		$-2 \overset{=}{f}$ frequency	$0 \overset{\circ}{\Phi}_f$ flux of f frequency	$2 \overset{=}{W}$ energy	$f = \frac{1}{t}$	$f = \frac{d1}{dt}$
0	$-2 \overset{=}{\Delta}$ Laplace operator	$0 \overset{\circ}{1}$ universal unity	$2 \overset{=}{A}$ area	$4 \overset{\circ}{J}$ action	$\Phi_f = Af$	$m = At$
1	$0 \overset{\circ}{\sigma}$ electric conductivity	$2 \overset{=}{t}$ time	$4 \overset{\circ}{m}$ mass		$S = \Delta P$	$\Delta S = \frac{df}{dt}$
2	$2 \overset{=}{\epsilon}$ dielectric factor	$4 \overset{\circ}{\Phi}_\epsilon$ optical area	<i>Radiation becomes active, when its frequency changes.</i>			

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Typical values of all possible classes of the quanta of matter-spirit

Class	Quantum	Size	Frequency	Temperature	Velocity	Voltage
4	<i>Superbrain cell</i>	<i>0.5 m</i>	<i>~2/h</i>	<i>2.4 μK</i>	<i>0.26 mm/s</i>	<i>2 MV</i>
3	Brain cell	5 mm	5 Hz	240 μK	2.6 cm/s	20kV
2	Nerve cell	50 μm	50 kHz	24 mK	2.6 m/s	200 V
1	Tissue cell	0.5 μm	500 MHz	2.4 K	260 m/s	2 V
0	Membrane	5 nm	5 THz	240 K	26 km/s	20 mV
-1	Molecule	50 pm	50 PHz	24 kK	2.6 Mm/s	200 μV
-2	atom	0.5 pm	500 EHz	2.4 MK	260 Mm/s	2 μV
-3	Atomic nucleus	5 fm	5×10^{24} Hz	240 MK	26 Gm/s	20 nV
-4	<i>Quark</i>	<i>50 am</i>	5×10^{28} Hz	<i>24 GK</i>	<i>2.6 Tm/s</i>	<i>200 pV</i>

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