

Radiation Creates Matter, and c, G are Both "infinite" and "finite"

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Radiation Creates Matter, and c, G are both "infinite" and "finite"
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There are two indications that radiation creates matter and that c, G are both "infinite" and "finite". These are: (a) Probability proper coordinates in singularities, and (b) infinite exponents in c, G scenarios.

Let's start with the most well known singularity, a black hole. At the risk of shattering some myths about black holes based on Hawking's obsession with thermodynamics which relates to syntactic rather than semantic information and other considerations, let's follow a light ray through a black hole in dual probability coordinates, namely PI (Probable Influence) $P(A \rightarrow B) = 1 + y - x$ and conditional probability $P(B|A) = y/x$. Here x is the influencing or causing variable, y is the influenced or caused variable on scales of 0 to 1, and as we approach the hole we'll have $x \rightarrow 0$ which constrains $y \rightarrow 0$ from $P(A \rightarrow B)$ (since probability never exceeds 1) but "blows up" $P(B|A)$.

In $P(A \rightarrow B)$ coordinates, nothing happens! Or more precisely, physics isn't violated, but $P(A \rightarrow B) \rightarrow 1$ which means that maximum possible probable causation is being exerted. This is what we would expect in creating matter from radiation or from anything.

In $P(B|A)$ coordinates, chaos ensues. You can try to find a limit for y/x as $x \rightarrow 0+$ in the respective special cases $x = y$, $x = 2y$, $x = 3y$, etc., and you'll come up with 1, 1/2, 1/3, etc. – that is, no single limit and therefore no limit, whether one-sided or two-sided. A more general argument can also be made.

We have in a sense penetrated chaos in both non-chaotic and chaotic coordinates, and since we interpret matter creation from radiation in the first case, how do we interpret chaos itself in the second case? Phase change, but not only that – an "incomunicado" phase change

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corresponding to total disorientation of the "observer". Curiously enough, we'd expect the phase to change in creating matter from radiation or anything comparable in "seriousness".

Readers can try variable exponents c^a and G^a in the usual physical laws and include $a = \text{infinity}$ as one case and then see what happens as homework.

Osher Doctorow

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- ◆ *From:* OsherD

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