

A Treatise On Quantum Theory II (was: Textbook on quantum mechanics)

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whopkins@csd.uwm.edu wrote:

> *Not to plug new or upcoming books, but [oops too late],*
> *I've been working through the basic topics of a treatise,*
> *as per the subject header, for quite some while. The*
> *initial draft of the Prologue addresses some of the*
> *issues and also shows the general direction the*
> *treatise will be headed in.*

>

> *The basic point of departure (and there are many) is*
> *to firmly cast the foundation in the realm of finite*
> *temperature physics; and closely integrate it with*
> *statistical mechanics and classical physics, itself;*

[...]

> *The Big Picture*

> =====

[... explanation showing that the observable universe (i.e. the past light cone) is a hypersphere with the Big Bang on the other end; recalling the famous medieval painting of Dante's Divine Comedy; and is in a thermal state at a positive temperature ...]

>

> *-- to be continued --*

> *[why this tack is taken on in the prologue will become*
> *clear in the following articles, provided I have time to*
> *post them.]*

Continuing on with the Prologue ...

The situation is somewhat analogous to having a polar map of the Earth.

The North Pole, in this example, lies at the center. And around it are a concentric series of circles, each marking off a latitude.

Eventually you reach a point where the circles are as flat as any can get on the Earth -- the equator. Beyond this point, they start curving the other way -- with the North Pole outside of them -- even though they appear on the map as circles yet larger than the Equator, encompassing it. The outermost circle is merely a point: the South

Pole. Those circles just inside of it are actually tiny circles around the South Pole.

So it is that the visible universe — all those places and all those instants of time newly directly visible to us here and now; which forms the projection called the "sky" or "heavens