

Towards a Unified Picture of Everything

Aman Chawla

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The quest to unify all knowledge has long kept man restless. In this note¹, the authors propose a way to understand nature in toto. We provide an equivalence between problems in general relativity and quantum mechanics. This is done by noting that in general relativity the potential defines the metric which allows distance computations whereas in quantum mechanics the potential defines the probability of finding the particle at a particular location, some distance from the origin. We then note that as per measure theory, a probability is nothing but a length or distance. Thus we uncover a link between the two theories. The chief considerations that remain to be addressed are of scale and domain of applicability.

Ongoing work in our research enterprise will provide the mathematical formalism to support this equivalence or link, as well as providing gedanken examples to illustrate the applicability of the new theory.

¹This note contains forward-looking statements and must be taken as a report of a work in progress.