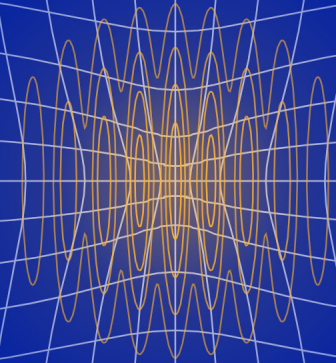


Spacetime as a Functional of Matter

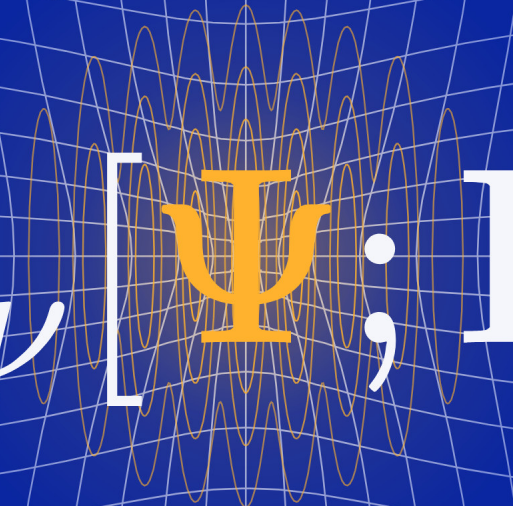
Daniel Fook Hao Tan, Research Scholar, RIIS 2.0



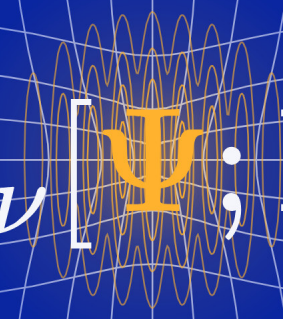
What if we take Einstein's equations to their maximalist reading?

Spacetime is not an independent object.

$\mathcal{G}[\Psi]$, not $\mathcal{G}[\langle T_{\mu\nu} \rangle]$.


$$g_{\mu\nu} = \mathcal{G}_{\mu\nu}[\Psi; \Gamma]$$

Quantum mechanics describes the matter.


$$g_{\mu\nu} = \mathcal{G}_{\mu\nu}[\Psi; \Gamma]$$

$$\left(i\hbar c \gamma^a e^\mu_a [\Psi] D_\mu - mc^2 \right) \psi = 0$$

Matter carries gravity's quantum content, not the metric.

Poster 23

Thursday 29 October
3:45pm

Let's talk.



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