Sixteenth Marcel Grossmann Meeting



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Examination of Schrodinger equation in pre planckian space-time early universe

Tuesday, 6 July 2021 10:50 (25 minutes)

We look at Viutilli (1999) write up of a generalized schrodinger equation with its Ricci scalar inclusion, in curved space-time. This has a simplified version in Pre Planckian regime, which leads to comparing a resultant admissible wave function with Bohmian reformulations of quantum physics. As was done earlier, we compare this result with a formulation of a modified 'Poisson' equation from Poisson and Will from 2014, and then use inflaton physics . The resulting inflaton is then compared to the wave functional in the first part of this document.

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