



Varying Newton's constant, dark matter, and gravity at short distances

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ABSTRACT

We show that a slowly varying Newton's constant, consistent with all observations, may partly or wholly mitigate the need for dark matter. It can also explain why MOND seems to work only at galactic scales. When extrapolated to short distances, the model predicts a new form of 'asymptotic freedom' in quantum gravity. We discuss the possible origin and implications of this variation.

VENUE

PAMU Seminar Hall
A.N. Kolmogorov Building,
ISI, Kolkata

DATE & TIME

2nd January, 2024
02:00 PM



*Everyone is
invited to attend*