## International Conference on

## Quantum Mechanics and Applications

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## Possible quantum eigenstates in a given system

All eigenstates are in superposition upto infinity until observation/measurement. Each of the 3 coordinates position, momentum and spin are represented in the infinite series S1, S2 and S3 above. Interference causes the above three series to overlap.

Probability density function:  $|\psi|^2 = \Psi * \Psi = (\epsilon 1 - \epsilon a 1)(\epsilon 1 + \epsilon a 1) = \epsilon 1 \text{ square} + \alpha 1 \text{ square}^{-1}$ . At any given point in time, there are only 3 bit combinations of S1, S2 and S3. For n bits, the combination is 2n. The possible set of eigenstates for all series is  $2n+2n+2n+\dots$ . For the above example  $\Box \Psi >$  combined for S1,S2 and S3 and so on at a given point in time, is derivative of time t times the probability of a given eigenstate,

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\begin{split} & \Box \phi > \underline{\neg} (\partial_t d_t) * 2^a ( \  \, \int_{-\infty}^{\infty} \Box_t | \phi | z \, ds z^{\Box} \  \, + \  \, \int_{-\infty}^{\infty} \Box_t | \phi | z \, ds z^{\Box} + \int_{-\infty}^{\infty} \Box_t | \phi | z \, ds z^{\Box} + ...) \\ & \Box \phi > \underline{\neg} (\partial_t d_t) * 2^3 (1+1+1+...) & \text{Ramarmijan's infinite series theorem, } 1+2+3+4...\underline{\neg} \underline{\neg} -1/12 \\ \underline{\neg} (\partial_t d_t) * 2^3 (-1/12) \\ \underline{\neg} \partial_t * (\partial_t d_t) & \underline{\neg} (\partial_t d_t) & \underline{\neg} (\partial_t d_t) * 2^3 (1+1+1+1+1+....) \\ \underline{\neg} (\partial_t d_t) * 2^3 (1+1+2+3+.....) \\ \underline{\neg} (\partial_t d_t) * 2^3 (1+(-1/12)) \\ \underline{\neg} (\partial_
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## **Biography**

Lalitha Nath has completed her bachelor's in the year 2005 at the age of 21 years from JNT University. She is an IT professional for the past 11 years in a premier Insurance organization. She is a Quantum enthusiast and has spent significant amount of time in researching and understanding Quantum phenomenon. Passionate in Quantum Physics, she has started writing her own papers on Quantum mechanics.

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