Abstract Submitted
for the MAR07 Meeting of
The American Physical Society

The Mystery of Genetic Tape SHANTILAL GORADIA, Gravity Research Institute, Inc. — I attempt to explain information exchanges of a DNA at particle level at Planck scale in terms of the quantum computer theory. The substitution of Euclidean wormholes proposed by Hawking in hep-th/0507171, in Fig 2 of my gr-qc/0507130 [1] makes them unstable, giving them the ability to register alternate bits of information, OPEN or CLOSE, every other natural unit of Planck time with time dependent sequencing. I will present a pictorial view, of my idea introduced at Feynman Festival Aug, 2006 and DNP06. Whether the wormholes are Euclidean and therefore inherently unstable, or they are Lorentzian and destabilized by quantum fluctuations of gravity, reported degrading with time [2] is of secondary importance. The point is that the instability of wormholes explains cellular communications, in addition to running couplings explained in more detail in physics/0210040. The quantum mouths proposed in [1] can cross the cell membrane and cell wall to express their information. Nature creates the instability to generate qubits of information, for storage and expression of heredity. Nature burns no encyclopedia. [1] Goradia S. G., *Indian Journal of Theoretical Physics,* **52** 143 (2004) [2] Leslie J., *Physical Cosmology and Philosophy,* 90 (1990)

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Date submitted: 12 Nov 2006 Electronic form version 1.4