

**detector dead-time effects and paralyzability in high ...** - 1 detector dead-time effects and paralyzability in high-speed quantum key distribution daniel j rogers1, 3, joshua c bienfang1, anastase nakassis2, hai xu2 and charles w clark1 1joint quantum ... **quantum information science - national science foundation** - quantum effects have been used to create unbreakable codes, and a quantum computer, if one can be built in the future, could easily perform some computations that would take longer than the age of the universe on today's supercomputers. the way in which quantum effects speed up **why we need quantum gravity and why we don't have it**- why we need quantum gravity and why we don't have it steve carlip u.c. davis quantum gravity: physics and philosophy ... " quantum effects magnified by inflation broken symmetries ... " how do you get consistent lorentz invariance (only one speed of light)? **is quantum search practical? - arxiv** - that massive speed-ups in computing can be achieved by exploiting quantum-mechanical effects such as superposition (quantum parallelism) and interference [1]. a quantum algorithm typically consists of applying quantum gates to quantum states, but since the input to the algorithm may be non-quantum, i.e., normal classical bits, it only affects **silicon-based quantum information sciences grand challenge** - of quantum effects. sandia's unique approach. a critical challenge in building a quantum information . processing system is the need to couple and manipulate tiny quantum dots as qubits in the form of a quantum circuit that produces a useful function. sandia researchers are focused on the basic questions related to the feasibility- **modeling quantum effects in the channel of a nanoscale ...** - superior high frequency and low noise performances [1-2]. the indispensable need of high- speed led to the shrinking of the devices which has been accompanied by short channel effects. the double-gate (dg) technology provided excellent short channel immunity and improved charge control in the channel. ... modeling quantum effects in the channel ... **speed of light = speed of what?? - portland state university** - need to get light to add up change in speed is frequency dependent quantum mechanical effects not very common in most materials and wavelengths need to change refractive index by sending it through special material and or specific temperatures **quantum Erenkov effect from hot carriers in graphene: an ...** - 1 quantum Erenkov effect from hot carriers in graphene: an efficient plasmonic source ido kaminer 1, yaniv tenenbaum katan 2, hrvoje buljan 3, yichen shen 1, ognjen ilic 1, josu fpez 1, liang jie wong 4, john d. joannopoulos 1, and marin soljačić 1 department of physics, massachusetts institute of technology, 77 massachusetts avenue, cambridge 02139, massachusetts, usa **lecture 22 relativistic quantum mechanics - tcm group** - why study relativistic quantum mechanics? 1 many experimental phenomena cannot be understood within purely non-relativistic domain. e.g. quantum mechanical spin, emergence of new sub-atomic ... 1 when velocity approaches speed of light c or, more intrinsically, when energy is large compared to rest mass energy, mc<sup>2</sup>.

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