
Coherent Dynamics Of Complex Quantum Systems

coherent local information dynamics in complex computation - csiro. version 1.0 (iccs 2009) local information dynamics • we quantify the information dynamics of distributed computation in terms of 3 components of turing universal computation: **quantum coherence spectroscopy reveals complex dynamics in ...** - quantum coherence spectroscopy reveals complex dynamics in bacterial light-harvesting complex 2 (lh2) elad hareli and gregory s. engel² the james franck institute and department of chemistry, university of chicago, chicago, il 60637 **coherent electronic and nuclear dynamics in a rhodamine ...** - complex† m. cipolloni,^{a b} ... coherent dynamics has been the development of new ultrafast spectroscopic techniques, in particular two-dimensional electronic spectroscopy (2des).² 2des is now the primary tool to obtain clear and definitive experimental proofs of coherence effects whose signature is oscillations in the signal amplitude as a function of the delay time between laser pulses ... **unravelling coherent dynamics and energy dissipation in ...** - unravelling coherent dynamics and energy dissipation in photosynthetic complexes by 2d spectroscopy darius abramavicius, dmitri v. voronine, and shaul mukamel **coherence dynamics in light-harvesting complexes with two ...** - we investigate coherent dynamics in the cryptophyte light-harvesting complex phycocyanin-645 (pc-645). a two-colour four-wave mixing experiment allows us to isolate a coherence pathway and observe its evolution in the absence of other signals. we measured a decoherence time of 540fs for the coherence [1]. additionally oscillations in the signal pathway give evidence for the coherent excitation ... **two-colour spectroscopy coherent dynamics in light ...** - coherent dynamics in light-harvesting complexes with two-colour spectroscopy g. h. richards¹, k. e. wilk², p. g. curmi², h. m. quiney³ and j. a. davis¹ **excited state coherent dynamics in light-harvesting ...** - dynamics of electronic dephasing in the fenna matthews olson complex dugan hayes, gitt panitchayangkoon, kelly a fransted et al.-long-lived coherence in carotenoids j a davis, e cannon, l van dao et al.-recent citations vibration-assisted coherent excitation energy transfer in a detuned dimer xin wang et al-disentangling electronic and vibrational coherence in the phycocyanin-645 light ... **dynamics of complex quantum systems - researchgate** - dynamics of complex quantum systems july 28, 2004 springer berlin heidelberg newyork hongkong london milan paris tokyo. preface this book is an attempt to put together a large number of similar ... **coherent dynamics of coupled electron and nuclear spin ...** - understanding and controlling the complex environment of solid-state quantum bits is a central challenge in spintronics and quantum information science. coherent manipulation of an individual electron spin associated with a nitrogen-vacancy center in diamond was used to gain insight into its local environment. we show that this environment is effectively separated into a set of individual ... **complex dynamical systems theory - cognitive edge** - complex dynamical systems theory this article was written by professor alicia juarrero, author of dynamics in action: intentional behavior as a complex system. complex dynamical systems theory complexity is a systemic property. adaptive evolving systems like ethnic cliques or complex social situations such as "knife crimes" are best understood as dynamic networks of interactions and ... **controlling electronic and molecular dynamics using ...** - epsrc gr/a10222 final report 1 controlling electronic and molecular dynamics using coherent light 1. background/context "coherent control" is the use of coherent laser fields to direct a particular photophysical or photochemical process to a **patterns of coherent dynamics within and between lake ...** - patterns of coherent dynamics within and between lake districts at local to intercontinental scales ... t. k. 2004: patterns of coherent dynamics within and between lake districts at local to intercontinental scales. boreal env. res. 9: 359-369. spatial patterns of coherent inter-annual dynamics between lakes occur within and between lake districts at regional, continental, and even ... **coherent dynamics in solar energy transduction** - chapter 5 photoinduced coherent charge transfer 5.0.1abstract theoretical and spectroscopic evidence of coherent oscillatory behaviour as-sociated to photoinduced charge transfer has been reported both in complex **ultrafast single-molecule photonics: excited state ...** - journal of luminescence 128 (2008) 1050-1052 ultrafast single-molecule photonics: excited state dynamics in coherently coupled complexes jordi hernandob, jacob hoogenbooma, erik van dijkc, maria garcia-parajod,e, **coherent dynamics in solar energy transduction** - title: coherent dynamics in solar energy transduction issue date: 2014-12-15 . chapter 7 proton-coupled electron transfer 7.0.1abstract proton-coupled electron transfer is a fundamental processes in nature, most noticeably in photosynthesis. within the adiabatic molecular dynamics ap-proach we present real-time evidence of proton-coupled electron transfer upon oxidation of a benzimidazole ...

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