Time and space generalized diffusion equation on graph/networks

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Normal and anomalous diffusion are ubiquitous in many complex systems [1]. Here, we define a time and space generalized diffusion equation (GDE), which uses fractional-time derivatives and transformed d-path Laplacian operators on graphs/networks. We find analytically the solution of this equation and prove that it covers the regimes of normal, sub- and superdiffusion as a function of the two parameters of the model. We extend the GDE to consider a system with temporal alternancy of normal and anomalous diffusion which can be observed for instance in the diffusion of proteins along a DNA chain. We perform congentational experiments on a one-dimensional system emulating a linear DNA chain. It is shown that a subdiffusive-superdiffusive alternant regime allows the diffusive particle to explore more slowly small regions of the chain with a faster global exploration, than a subdiffusive-subdiffusive regime. Therefore, an alternancy of sliding (subdiffusive) with bopping and intersegmental transfer (superdiffusive) mechanisms show important advances for protein-DNA interactions.

1. INTRODUCTION

Diffusion—the net movement of particles in an environment, generally from a region of higher concentration to a region of lower concentration—is ubiquitous in natural and man-made systems. In the absence of obstacles to diffusion and traps, the diffusive particles describe a random walk motion on the curironment, such that their mean squared displacements (MSD) scale linearly with time, $(x^2) \propto t$. This process is known as normal diffusion. However, the existence of obstacles in the environment may trigger long-jumps of the diffusive particle [2–4], such that the mean displacement of the particles is bigger than that of the normally diffusing ones in the same period of time, i.e., $(x^2) \propto t^{n-1}$. This type of process is known as superdiffusive. On the other hand, it is possible that the environment has regions acting as traps for the particles, where they are retained for longer times than in a normal diffusive process. In this case, $(x^2) \propto t^{n-1}$, and the process is known as sub-diffusive. From the modeling perspective there are several approaches to describe anomalous (sub- and super-) diffusion [5, 6]. From a physical perspective these processes have analogues in terms of anomalous heat conduction [7], where normal diffusion implies normal heat conduction, superdiffusion implies anomalous heat conduction with a divergent thermal conductivity and sub-diffusion insulator in the thermodynamic limit.

It has been remarked that subdiffusion may arise as the result of the coexistence of time-periods dominated by normal transport with periods in which there is no effective transport. The last can emerge when the diffusive particle is temporarily trapped as a result of geometrical complexity and interactions with the environment. This could be clearly the case of the travel of contaminants in groundwater, which display much longer times than the ones expected from the classic diffusion. The motion of proteins while sliding on DNA during target search is believed to be subdiffusive in general [8]. Simulations results for the case of T7 RNA polymerase promoter search on T7 DNA has been found to be subdiffusive for short times and asymptotically approaching normal diffusion [9]. More recent intensive computational simulations also pointed out the important role of subdiffusive process in the diffusive search of proteins for their specific binding sites on DNA in the presence of the macromolecular crowding in cells [10]. Nowadays it is well established that the molecular crowding of the internal cellular environment induces the emergence of anomalous subdiffusion of cytoplasmic macromolecules. This has been verified by means of fluorescence correlation spectroscopy and computer simulations [11], fluorescence correlation spectroscopy [12], and by tracking fluorescently labeled mRNA molecules [13]. The complexities of the process where studied with globular proteins dispersed in aqueous solution of poly(ethylene oxide) (PEO) to mimic a crowded environment. Using state-of-the-art neutron spin echo (NSE) and small-angle neutron scattering (SANS) techniques it was observed a fast dynamic corresponding to diffusion inside a trap built by the polymer mesh with slower process corresponding to the long time diffusion on macroscopic length scales [14]. It has also been found that water molecules jump randomly between trapping sites on protein surfaces, giving rise to subdiffusion. At longer times the subdiffusive exponent gradually increases towards normal diffusion due to a many-body volume-exclusion effect [15].

The intermittency of fast and slow processes as the one described by the globular proteins in a crowded environment [14] can also be found in other scenarios. For instance, it has been reported that a proliferating, diffusing tumor within different surrounding tissue conditions migrates not only by using normal diffusion, but also using combinations of subdiffusion, superdiffusion, and even ballistic diffusion, with increasing mobility of the tumor cell when haptotaxis

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- 1. Understanding the eBook Generalized Diffusion Operators
 - The Rise of Digital Reading Generalized Diffusion Operators
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Generalized Diffusion Operators
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Generalized Diffusion Operators
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Generalized Diffusion Operators
 - Personalized Recommendations
 - Generalized Diffusion Operators User Reviews and Ratings
 - Generalized Diffusion Operators and Bestseller Lists
- 5. Accessing Generalized Diffusion Operators Free and Paid eBooks
 - Generalized Diffusion Operators Public Domain eBooks
 - Generalized Diffusion Operators eBook Subscription Services

- Generalized Diffusion Operators Budget-Friendly Options
- 6. Navigating Generalized Diffusion Operators eBook Formats
 - o ePub, PDF, MOBI, and More
 - Generalized Diffusion Operators Compatibility with Devices
 - Generalized Diffusion Operators Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Generalized Diffusion Operators
 - Highlighting and Note-Taking Generalized Diffusion Operators
 - Interactive Elements Generalized Diffusion Operators
- 8. Staying Engaged with Generalized Diffusion Operators
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Generalized Diffusion Operators
- 9. Balancing eBooks and Physical Books Generalized Diffusion Operators
 - Benefits of a Digital Library
 - \circ Creating a Diverse Reading Collection Generalized Diffusion Operators
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Generalized Diffusion Operators
 - Setting Reading Goals Generalized Diffusion Operators
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Generalized Diffusion Operators
 - Fact-Checking eBook Content of Generalized Diffusion Operators
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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