CV
Dr. Ashraf Mohamed Tawfik

Name	Ashraf Mohamed Tawfik Attia		Birth Date	04.12.1989	Gender		Male
County	Egypt	Title	Dr.	Research field	Theoretical Physics		
Affiliation	Physics Department, Faculty of Science, Mansoura University, Mansoura 35516, EGYPT.			Degree	Ph.D.		
Emails	ashraftawfik1989@gmail.com			Tel.	+20 1092370416		
Education Experience	2006 – 2010 BSc (Excellent with Honors) Physics, Mansoura University 2011 - 2014 Master in Theoretical Physics - Mansoura University- Egypt Thesis Title: **Fractional calculus for describing some nonlinear Physical Phenomena.** 2015 – 2019 Ph.D. in Theoretical Physics- Mansoura University- Egypt Thesis Title: **Acceleration of High-energy cosmic ray particles employing fractional techniques.**						
Working Experience	• **Lecturer:** Physics Department, Faculty of Science, Mansoura University, Egypt, **February 2019 up to now**. • **Assistant Lecturer:** Physics Department, Faculty of Science, Mansoura University, Egypt, May 2014. • **Demonstrator:** Physics Department, Faculty of Science, Mansoura University, Egypt, December 2010.						
Representative publications or research achievements	-**Ashraf M. Tawfik**, 2020, On fractional approximations of the Fokker–Planck equation for energetic particle transport, The European Physical Journal Plus, 135 (10): 1-19. - **Ashraf M. Tawfik**, Horst Fichtner, A.Elhanbaly, Reinhard Schlickeiser, 2019, An Analytical Study of Fractional Klein–Kramers Approximations for Describing Anomalous Diffusion of Energetic Particles, Journal of Statistical Physics, 174:830–845 -**Ashraf M. Tawfik**, Horst Fichtner, A.Elhanbaly, Reinhard Schlickeiser, 2018, General solution of a fractional Parker diffusion-convection equation describing the superdiffusive transport of energetic particles, The European Physical Journal Plus, 133: 209. - **Ashraf M. Tawfik**, Horst Fichtner, A.Elhanbaly, Reinhard Schlickeiser, 2018, Analytical solution of the space–time fractional hyperdiffusion equation Physica A: Statistical Mechanics and its Applications, 510:178-187. - **Ashraf M. Tawfik**, Horst Fichtner, Reinhard Schlickeiser, A.Elhanbaly, 2018, Analytical solutions of the space–time fractional Telegraph and advection–diffusion equations Physica A: Statistical Mechanics and its Applications, 491:810-819. -**Ashraf M. Tawfik**, Horst Fichtner, Reinhard Schlickeiser, A.Elhanbaly, 2017, Analytical study of fractional equations describing anomalous diffusion of energetic particles, Journal of Physics: Conference Series, 869(1):012050. - S.A.El Wakil, Essam.M.Abulwafa, A.Elgarayhi, E.K.ElShewy, AbeerA.Mahmoud, **Ashraf M. Tawfik**, 2014, Effect of space- time fractal order on the ion acoustic waves in electron-positron- ion plasma, Astrophysics and Space Science, 10509-014-1785-2. - Emad K. El-Shewy, Abeer A. Mahmoud, **Ashraf M. Tawfik**, Essam M. Abulwafa, Ahmed Elgarayhi, 2014, Space-time fractional for dust acoustic shock waves in dusty plasma with non-thermal ions, Chinese Physics B, 23(7).						
Workshops & Conferences	- ICTP-IAEA College on Plasma Physics	(smr 3239) Trieste (Italy). - ITER International School in Aix-en-Provence (France) from the 20th to the 24th of March 2017 and hosted by Aix-Marseille University. - Ashraf M. Tawfik and Reinhard Schlickeiser, Analytical study of fractional equations describing anomalous diffusion of energetic particles, Frontiers in Theoretical and Applied Physics/UAE 2017 (FTAPS 2017). - A.I. Kassem, Ashraf M. Tawfik and H.F. Darwish, Space Time Fractional Electron Acoustic Soliton and Shock Waves in Dissipative Plasma, 2nd workshop in plasma physics: Theory and Application, Port Said, Egypt. Under the auspices of Port Said University and Alexander von Humboldt Foundation, 2014.						