

Prof. Dr. Durmus Ali Demir

Professor of Physics
Sabancı University,
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Field: High Energy Physics, Quantum Physics



Prof. Dr. Durmus Ali Demir is a Professor of Physics at Sabancı University, İstanbul, Turkey. He graduated from the Middle East Technical University, Ankara, Turkey with a major in Electrical and Electronics Engineering and a minor in Physics (1991). He earned his doctorate in Physics from the Middle East Technical University (1995). Furthermore, he worked as post-doctoral researcher at the University of Pennsylvania, Philadelphia, USA (1996-1997), at the International Centre for Theoretical Physics (ICTP), Trieste, Italy (1998-2000), and at the William Fine Theoretical Institute, University of Minnesota, Minneapolis, USA (2000-2003). He has also worked as faculty member at İzmir Institute of Technology, İzmir, Turkey (2003-2019) where he served as Dean of the Faculty of Science, Head of the Physics Department, and Director of the Graduate School. Furthermore, he was a visiting scientist to Deutsches Elektronen-Synchrotron, Theorie Group (2007-2008).

His current research is focused on ultraviolet naturalization of quantum field theories via emergent gravity. This new approach predicts various phenomena in collider physics, astroparticle physics and cosmoparticle physics. Besides this, his researches is also focused on quantum tunneling time, with particular emphasis on biological systems like the DNA. In addition, Prof. Demir has nearly 90 publications and holds Alexander von Humboldt Foundation, Friedrich Wilhelm Bessel Research Award (2007). He is also a member of The World Academy of Sciences (TWAS) (2009) and the Science Academy-İstanbul (2011).

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