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Areas of Interest: Non-Archimedean Analysis and Mathematical Physics.

My research interests and activities include various areas of non-Archimedean Analysis which is analysis on field extensions of the real numbers that contain also infinitely small numbers (positive numbers smaller than any positive real number) and infinitely large numbers (numbers that are larger than any real number.) Besides its importance from an abstract mathematical point of view, research in this area has many potential applications in Physics as well as other fields of science and engineering.

Research projects at the undergraduate and graduate levels are available for students with a strong background in Theoretical Physics and/or Mathematics. Interested students who wish to familiarize themselves with this research area are encouraged to visit my publications web site: www.physics.umanitoba.ca/~khodr/#Publications and contact me at khodr@physics.umanitoba.ca for more information.