**IBADAN FUNCTIONAL AND HARMONIC ANALYSIS RESEARCH GROUP**

This research group concerns the study, research and applications of Functional/Harmonic Analysis.

Areas covered include (but not limited to):

* Lie groups/algebras and Lie groupoids/algebroids
* Topological vector spaces, Locally convex spaces, Theory of Distributions
* Geometric Analysis and Spectral Theory
* Theory of Representations of groups and algebras
* Real and Abstract Harmonic Analysis
* Operator Theory and Operator algebras
* Non-commutative Geometry
* Partial Differential Operators and Equations
* Partial and Partial \*-algebras
* Differential Inclusions and Equations with Applications.
* Algebraic Geometry & Topology
* Stochastic and Quantum Stochastic Analysis
* Analysis of Fuzzy Systems

|  |  |  |
| --- | --- | --- |
| **S/N** | **FACULTY** | **RESEARCH INTERESTS** |
| 1 | Professor (Emeritus) S.A. Ilori *B.A.(Ibadan), D.Phil.(Oxford)* | ***Algebraic Toplogy/Geometry*** |
| 2 | Professor (Emeritus) G.O.S Ekhaguere  *B.Sc.(Ibadan), DIC, Ph.D.(London)* | ***Non-commutative Stochastic Analysis, Partial and Partial \*-algebras Mathematical Physics,*** |
| 3 | Professor (Full) E.O. Ayoola  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Stochastic Analysis and Applications, Quantum Stochastic Differential Inclusions/Equations, Stochastic Numeric*** |
| 4 | Professor (full) Deborah O.A. Ajayi  *B.Ed., M.Sc., Ph.D.(Ibadan)* | ***Algebraic Topology, Differential Topology, Computational topology/ Graphs*** |
| 4 | Professor U.N. Bassey  *B.Sc.(Calabar), M.Sc.,Ph.D.(Ibadan)* | ***Locally Convex Algebras, Operator Theory, Harmonic Analysis on Lie Groups*** |
| 5 | Professor M. EniOluwafe  *B.Sc.(Benin), M.Sc., Ph.D.(Ibadan)* | ***Algebraic K-Theory/Applications*** |
| 6 | Professor P.O. Arawomo  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Differential Equations &Analysis*** |
| 7 | Professor M.E. Egwe  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Functional/Harmonic Analysis on Lie Groups, Lie Groupoids, Theory of Distributions*** |
| 8 | Professor H.P. Adeyemo  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Agebraic Geometry, Differential Geometry, Differential Topology & Combinatorics*** |
| 9 | Professor B.A. Onasanya  *B.Ed., M.Sc., Ph.D.(Ibadan)* | ***Fuzzy Group Theory*** |
| 10 | Professor (full) M.O. Ogundiran  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Stochastic Analysis, Operator Algebras, Quantun Stochastic Inclusions*** |
| 11 | Professor D.A. Dikko  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Quantum Stochastic Inclusions, Infinite Dimensional Analysis/Applications, Quantum Computing*** |
| 12 | Professor Oyadare  *B.Sc., M.Sc., Ph.D.(Ibadan)* | ***Harmonic Analysis on Semisimple Lie Groups*** |
| 13 | Professor N.O. Okeke  *B.Sc.(Futo),* *M.Sc., Ph.D.(Ibadan)* | ***Theory of Lie Groupoids/ Algebroids*** |

DIASPORIANS

|  |  |  |
| --- | --- | --- |
| 1 | Professor (full) Balazs Szendroi  *University of Oxford* | ***Pure*Mathematics*, Algebraic Geometry*** |
| 2 | Professor (full) Norbert N. Youmbi  *Saint Francis University, Loretto, PA 15931, USA* | ***Measure and Integration Theory, Functional Analysis, Harmonic Analysis, Probability Theory*** |
| 3 | Professor (full) Yahogan Mensah  *Université d’Lome, Togo* |  |

GRADUATE STUDENTS

|  |  |  |
| --- | --- | --- |
| 1 | Paul Adewale OGBIYELE | ***Partial Differential Equations*** |
| 2 | O.L. GUNDIPE | ***Algebraic Topology*** |
| 3 | Chiagozi Amanze EGERE | ***Wavelet Analysis*** |
| 4 | Uwe Etime EDEKE | ***Harmonic Analysis on Compact Lie Groups*** |
| 5 | Ubong Sam IDIONG | ***Operator Theory*** |
| 6 | Paul ABAIVOH | ***Representations of Partial \*-algebras*** |
| 7 | Uche Anslem AMAONYEIRO | ***Theory of Distributions*** |
| 8 | Joseph Idowu OPADARA | ***Harmonic Analysis on Homogenous Lie Groups*** |
| 9 | Olubukola Amoz Ariyo | ***Harmonic Analysis on Nilpotent Lie Groups*** |
| 10 | Ramota Funke Yusuf | ***Function Algebras.*** |

Ecole school.