DR. SAMIA ASHRAF

CONTACT INFORMATION Email id: samia.ashraf@gcwus.edu.pk

Address: Department of Mathematics, GC Women University Sialkot Algebraic Topology **RESEARCH INTERESTS** • **Configuration Spaces** . Low Dimensional Topology • **Representation Stability** • **Digital Topology Combinatorial Commutative Algebra** QUALIFICATION PHD MATHEMATICS- ABDUS SALAM SCHOOL OF MATHEATICAL SCIENCES, GCU, LAHORE Thesis title: Cohomology of Configuration Spaces of Complex Projective Spaces Thesis Advisor: Professor Barbu Berceanu RESEARCH FELLOWSHIPS Postdoctoral Fellow, ASSMS, GCU Lahore, January 2020-January2021. Short term Research fellow, ICTP, Italy, September-December 2016. "HEC 5000 Indigenous fellowship" for the duration of PhD SCHOLARSHIPS AWARDED • "National Talent Scholarship" for the duration of M. Sc. • "National Talent Scholarship" for the duration of B. Sc. RESEARCH PAPERS 1) Samia Ashraf, M. Akram, A. A. Ali, Subdivision-based homotopy equivalence of digital circles, Applied General Topology, 26(2015), issue 1, 431-445 2) Samia Ashraf, H. Azam, B. Berceanu, Representation stability of power sets and square free polynomials, Canadian Journal of Mathematics, DOI: 10.4153/CJM-2014-029-2, 67(2015), issue 2.

	3)	Samia Ashraf , H. Azam, B. Berceanu, <i>Representation theory</i> <i>for the Kriz model</i> , Algebraic and Geometric Topology, 14 (2014) 57–90
	4)	Samia Ashraf, B. Berceanu, Cohomology of 3-points
	-)	configuration spaces of complex projective spaces, Advances
		in Geometry, 14(2014), issue 4, 691–718.
	5)	Samia Ashraf, A. A. Ali, On Subdivision-based homotopy
		equivalence of digital simple closed curves, submitted.
	6)	Samia Ashraf, A. A. Ali, Winding number of loops and digital
	7)	Samia Ashraf B Berceanu, Equivariant Lafschatz structure
	/)	of the Kriz model, in preparation.
TALKS	1)	"Equivariant structure on the rational models and
		applications to the cohomology of configuration spaces", An
		of Professor Barbu Berceanu, November 20-22, 2011,
		ASSMS, Lahore, Pakistan.
	2)	"Cohomology of 3-points configuration spaces of complex
		projective spaces", 6 th World Conference on 21st Century
	2)	Mathematics, March 6-9, 2013, ASSMS, Lahore, Pakistan.
	3)	Lonomology of 3-points configuration spaces of CP ^{III} , 1 st
		Sciences, March 7-8, 2015.
	4)	"Cohomology of configuration spaces of complex projective
		spaces", November 2016, ICTP, Trieste, Italy.
	5)	"A discussion about cohomology of configuration spaces", September 17, 2019, ASSMS, Lahore, Pakistan.
	6)	"Fundamental group of digital circles". April 15. 2025, UMT, Lahore, Pakistan.
	7)	"On certain homotopy equivalence of digital circles", Apri 16,
		2025, University of Education, Lahore, Pakistan.
AWARDS		1) "Best Young speaker award" for the presentation in 6th
		6-9. 2013. ASSMS. Labore. Pakistan.
	;	2) Short term visiting fellowship for research at ICTP. Italy.
		September-December 2016.
ATTENDED SCHOOLS AND 1) Summer School and Conference on Hodge theory and related		
CONFERENCES (OVERSEAS) topics, International center for theoretical physics (ICTP), 14		
2) CIMPA School on Geometric Representation theory August 1		
12, 2011, ITB Bandung, Indonesia.		

3) CIMPA School on Geometry and Topology of Singular Varieties: Theory and Applications, December 02-14, 2013, Hanoi, Vietnam.
4) CIMPA School on Hyperplane Arrangements; Recent advances and open problems, March 11-22, 2019, Hanoi, Vietnam.

REFERENCES PROFESSOR BARBU BERCEANU

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