

Curriculum Vitae

Seyed Mohammad Bagher Kashani

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Full Professor, Mathematics

♦Education:

PH.D., pure Math, Leeds University ,U.K. ,1988

Dissertation: Isoparametric Submanifolds in Pseudo-Riemannian Spaces (Sup: Prof. Alan West)

M.Sc., Pure Math, University of Warwick, UK, 1985

Dissertation : The Classification of Germs of Low Codimnsion and Wiitney's Theorem (Sup: Prof. Ian Stewart)

B.Sc. , Pure Math, Sharif University of Technology , Tehran ,Iran, 1980

♦Experience :

Assistant professor , Sharif University of Technology, 1988-1989

Assistant professor , Tarbiat Modares University, 1989-2000

Associate professor , Tarbiat Modares University, 2000-2006

Full professor, Tarbiat Modares University, since 2006

♦Courses taught :

Analysis I & II

Topology I

Differential Geometry (under graduate)

Differential Geometry (graduate course)

Geometry of Manifolds I & II

Algebraic topology I & II

Differential topology I

♦ **Fields of Interest:**

Geometry/ Topology

♦ **& Supervision of Students**

♦ **Supervision of about 80 M.Sc. and 10 Ph.D. students**

♦ **A member of the editorial board of Bull. Iranian Math . Soc. For the years 2004-2007 & 2010-2016.**

♦ **A member of the editorial board of J. Sciences, I.R.I. 2015-2018**

♦ **MR reviewer**

♦ **Publications:**

○ **Journals**

No	Title	Journal	co-authors
1	On quadratic isoparametric functions and submanifold	Bulletin of Iranian mathematical society.vol .18,no.2 (1992) 31-39	----
2	Minimal surfaces (in Persian)	<i>Nashr-I-Ryazy.vol4,no.3(1992)10-17</i>	----
3	Four manifolds (in Persian)	<i>Nashr-I-Ryazyvol.6,no.1,2(1994)8-12</i>	----
4	Isoparametric Functions and Submanifolds	Glasgow Math. J.35(1993)145-152	----
5	Quadratic Isoparametric Systems in $\mathbb{R}_p^{n+m}$	Glasgow Math. J.35(1993)135-143	----
6	Codimension isometric immersions between pseudo spheres	Geom. Ded.56:263-268.1995	----
7	Hypersurfaces in $\mathbb{R}^n$ satisfying $\Delta X=AX+B$	<i>Alg groups and geom..13,81-91(1996)</i>	----
8	On the existence of MFD intermediate shock waves for rectilinear motion in some models of plasma	Bulletin of Iranian mathematical society.vol.22,no.2.pp.1-18(1996)	Hsaraki-M
9	On some submanifolds with flat space like normal bundle in pseudo Riemannian	<i>Southeast Asian Bull of Math.(1999)23:19-31</i>	----
10	Cohomogeneity one revolution hypersurfaces of the Euclidean space	<i>Southeast Asian Bull of Math.(1999)23:633-642</i>	----
11	Hypersurfaces of the hyperbolic space (in Persian)	<i>Nashr-I-Ryazy.1999,vol.10,no.1.12-20</i>	----
12	Topological properties of some cohomogeneity one Riemannian manifolds of non positive curvature	Bulletin of Korean Math. Soc.37(2000),no.3,pp.587-599	Mirzaie.R
13	Cohomogeneity one revolution hypersurfaces of the sphere	Italian Journal of pure & applied Math.no.10-2001(181-190)	Etemadi.A
14	Compact homogeneous hypersurfaces of the hyperbolic space	Southeast Asian Bull of Math.(2002)26:223-225	Etemadi.A
15	On cohomogeneity one flat Riemannian manifolds	Glasgow Math.J.44(2002)185-190	Mirzaie.R
16	On the topological properties of some cohomogeneity one manifolds of non positive	Italian Journal of pure and applied math.no.15-2004(49-56)	----

	curvature		
17	On some compact space like submanifolds of pseudo-sphere	Geom. Ded.108:125-130,2004	----
18	Cohomogeneity one Riemannian manifolds of non-positive curvature	Diff. geom. Appl,25(2007)p561-581	Alekseevesky.D.V, Abedi.H
19	Cohomogeneity one Riemannian manifolds of constant positive curvature,	Journal of Korean Math. Soc.44(2007),no.4,pp799-807	Abedi-H
20	totally geodesic singular orbits and symmetric singular orbits in cohomogeneity one riemannian manifolds	Lobachevskii journal of math.2008,vol.22,no.4,p193-205	Alekseevesky.D.V ,Abedi.H
21	Umbilicity of (space-like) submanifolds of pseudo-Riemannian space forms	<i>Journal of Scinces,IRI.20(2):153-157(2009)</i>	---
22	On some L_1 -finite type (hyper)surfaces in $R^{(n+1)}$	Bull.korean math.soc.46(2009),no.1,35-43	----
23	Cohomogeneity one anti de Sitter space $(H^3)_1$	Bulletin of iranian mathematical society.vol.35,no.1(2009),223-235	Ahmadi.P
24	cohomogeneity one de Sitter space $(S^n)_1$	Acta Math. Sinica, English version,2010,vol.26,no.10,1915-1926	Ahmadi.P
25	Hypersurfaces in space forms satisfying the condition $Lk=A x+b$	Taiwanese J. Math,(vol.14,No.5,pp.1957-1977oct2010)	Alias-L.J
26	cohomogeneity one Minkowski space $(R^n)_1$	Publications Math. Debrecen78/1,(2011),49-59	Ahmadi.P
27	Timelike Hypersurfaces in the Standard Lorentzian Space Forms Satisfying $L k x = Ax + b$	Mediterranean Journal of Mathematics, August 2014, 11, 755-773	F. Pashaie
28	Some integral formulas for the $(r+1)$ th mean curvature of a closed hypersurface	Int. J. Math. &Math sciences,vol2012, article ID 784028	A. Mohammadpouri
29	On some L_k -finite – type Euclidean hypersurfaces	ISRN Geometry, vol 2012- article ID 591296	A. Mohammadpouri
30	Quadric hypersurfaces of L_r -finite type	Countribution to Alg. & Geom., 2013, 54, 625-641	A. Mohammadpouri
31	On some L_1 finite type Euclidean surfaces	Acta Mmath Vietnam, 2013 38,303-316	A. Mohammadpouri, F. Pashaie
32	Isotropic Lagrangian submanifolds in complex space forms	Journal of Sciences,IRI, 2012, 23(3), 257-262	Z. Toyserkani
33	L_k Biharmonic Hypersurfaces in the eucliden space	Taiwanese journal of mathematics, Vol. 19, No. 3, 2015,861-874	M. Aminian
34	L_k Biharmonic Hypersurfaces in the space form	<i>Acta math. Vietnam (2017)42,3,471-490</i>	M. Aminian
35	On cohomogeneity one non-simply connected 7-manifolds	Bull. Iranian Math. Soc. Vol. 42 (2016), No. 3, 565-584	M.Zarei and H. Abedi
36	cohomogeneity one Anti De Sitter space AdS^{n+1}	Lobachevskii Journal of Math. Vol 37, No. 2, 2016,205-214	M.J. vanaei, E. Straume
38	Cohomogeneity one actions on anti de sitter spacetime	<i>Results in Math</i> 72(2017),515-536.	M.J. vanaei, J. c. Diaz-Ramos.
37	Perelman entropy functional at type 1 singularity on complete manifolds	Bull. Iranian Math. Soc.44(2018)519-1542	M. H. Mostafid

38	Riemannian hypersurfaces in L^{n+1} with a totally geodesic foliation of codimension one	J. Geom. (2019) 110:22 2019 https://doi.org/10.1007/s00022-019-0477-z	<u>M.J. Vanaei,</u> <u>S.M. Yaghoobi</u>
39	Real hypersurfaces in Q_m with commuting structure Jacobi operator.	<i>Bull. Iranian Math. Soc.</i> 47 (2021), no. 2, 351–370.	N. Heidari <u>M.J. Vanaei,</u>
40	Comparison Geometry for an Extension of Ricci Tensor	<i>Results in Mathematics</i> volume 76 Article number: 215 (2021)	S. Azami, S. H. Fatemi
41	Geodesic Completeness of some Lorentzian Simple Lie Groups	Journal of Lie Theory Volume 35 (2025) 239–261 2025 Heldermann Verlag	Esmail Ebrahimi and <u>M.J. Vanaei,</u>
42	Hypersurfaces in non-flat Lorentzian space forms with a totally geodesic foliation of codimension one	<i>Results in Mathematics</i> . accepted	N. Heidari <u>M.J. Vanaei,</u>

Translations

1. Quantum spaces and their non-commutative topology
2. Leaving Mathematics for philosophy
3. The road to reality
4. conjectures no more? ...
5. The nature of space ...