

Curriculum Vitae

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| Nome | | Martin Josef F u n k |
| Nato | il 21 marzo 1953 | a Erlangen (Germania) |
| Studi svolti | 1973-1979 | Matematica e Fisica presso l'Università di Erlangen-Norimberga (Germania) |
| Tesi di dottorato | 1980 | Argomento: Regolarità nei piani di Benz (sotto la guida dei proff. A. Barlotti, P. Plaumann e K. Strambach) |
| Impieghi accademici | 05/06/79 - 29/02/80 | Assistente presso l'Istituto di Matematica dell'Università di Erlangen-Norimberga |
| | 01/04/80 - 30/09/80 | Assistente presso l'Istituto di Matematica dell'Università di Friburgo/Brisgovia (Germania) |
| | 01/11/80 - 31/07/81 | Assistente presso l'Istituto di Matematica dell'Università di Erlangen-Norimberga |
| | 01/08/81 - 31/01/82 | Borsista della D.F.G. presso l'Istituto di Matematica dell'Università di Erlangen- Norimberga |
| | 01/02/82 - 30/09/82 | Borsista dal C.N.R. presso l'Istituto di Geometria dell'Università di Bologna |
| | 01/10/82 - 31/03/83 | Borsista della D.F.G. presso l'Istituto di Matematica dell'Università di Erlangen- Norimberga |
| | 01/04/82 - 31/10/83 | Assistente di ruolo presso l'Istituto di Matematica dell'Università di Erlangen- Norimberga |
| | 01/11/83 - 09/06/87 | Professore a contratto (Art. 100/d del D.P.R. 382/80) presso la Facoltà di Scienze MM. FF. NN. dell'Università della Basilicata; |
| | | Professore a contratto (Art. 100/d del D.P.R. 382/80) presso la Facoltà di Scienze MM. FF. NN. dell'Università di Salerno |
| | dal 10/06/87 | Professore associato per la disciplina Geometria superiore presso la Facoltà di Scienze MM. FF. NN. dell'Università della Basilicata, confermato dal 10/06/90 |

Ricerca

Geometrie finite, teoria dei grafi, configurazioni, partizioni.

Partecipazione a convegni:

- “Geometria combinatoria e di incidenza: fondamenti e applicazioni”, Passo della Mendola (TN), 4/7-11/7/1982;
- “Combinatorics ‘84”, Bari, 24-29/9/1984;
- “Combinatorics ‘86”, Passo della Mendola (TN), 30/6-5/7/1986;
- “Web Geometry”, Szeged, Ungheria, 24-28/8/1987;
- XIII Congresso nazionale dell'Unione Matematica Italiana, Torino, 3-9/9/1987;
- “Combinatorics '88”, Ravello, 24-28/5/1988;
- Convegno del G.N.S.A.G.A. (C.N.R.), Trieste, 6-8/10/1988;
- “Grundlagen der Geometrie”, Oberwolfach, Germania, 18-23/12/1988;
- “Combinatorics '90”, Gaeta (LT), 21-26/5/1990;
- “Groups and Geometries”, Willemstad, Curaçao, Antille Olandesi, 5-14/8/1991;
- “Atelier Tissus et Singularités”, Montpellier, Francia, 23-27/9/1991;
- Convegno “Giornate di Geometria Combinatoria”, Perugia, 11-14/3/1992;

- “Combinatorics '94”, Roma & Montesilvano (PE), 10-16/9/1994;
- “Combinatorics '98”, Mondello (PA), 14-20/6/1998;
- “XXXI South-Eastern Conference on Combinatorics, Graph Theory, and Computer Science”, Boca Raton, Florida, USA, 13-17/3/2000;
- “Combinatorics 2000”, Gaeta (LT), 28/5 –3/6/2000;
- “6th International Conference in Graph Theory”, Marseille, Francia, 28/8-1/9/2000;
- “International Symposium on Graphs, Designs, and Applications”, Messina, 30/9-4/10/2003;
- “Combinatorics 2004”, Acireale (CT), 13-18/9/2004;
- “Combinatorics 2006”, Ischia (NA), 25/6-1/7/2006;
- “Combinatorics 2008”, Costermano (VR), 22/6-28/6/2008;
- “Normfest” (“International Conference on Finite Geometry to Honor the Career of Norman L. Johnson on the Occasion of his 70th Birthday”), St Antonio, Texas, USA, 26-29/3/2009;
- “XLI South-Eastern Conference on Combinatorics, Graph Theory, and Computer Science”, Boca Raton, Florida, USA, 8-12/3/2010;
- “Combinatorics 2010”, Verbania (VB), 27/6-3/7/2010;
- “Combinatorics 2012”, Perugia (PG), 9/9-15/9/2012;
- “9th International Colloquium on Graph Theory and Combinatorics”, Grenoble, Francia, 30/6-4/7/2014.

Partecipazione a “NATO Advanced Study Institutes”

- “Geometry – von Staudt’s Point of View”, Bad Windsheim (Germania), 21/7-1/8/1980;
- “Rings and Geometry”, Istanbul, 2-14/9/1984
- “Generators and Relations in Groups and Geometries”, Castelvecchio Pascoli (LU), 1-13/4/1990

Altre attività scientifiche

Membro dell’Organizing Committee del

- “Combinatorics 2002”, Maratea (PZ), 2-8/6/2002.
- “Combinatorics 2002”, Maratea (PZ), 29/5-5/6/2016.

Elenco delle pubblicazioni

[33] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: On the Ubiquity and Utility of Cyclic Schemes.

[*Australas. J. Combin.* **55** \(2013\), 95–120.](#)

[32] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: Revisiting constructions of v_k configurations. In: *Recent Results in Designs and Graphs: a Tribute to Lucia Gionfriddo*, Quaderni di Matematica vol. **28**, Caserta 2012, pp. 2–20.

[31] Abreu, M.; Funk, M. J.; Labbate, D.; Napolitano, V.: Invariant adjacency matrices of configuration graphs.

[*Linear Algebra Appl.* **437** \(2012\), no. 8, 2026–2037.](#)

[30] Funk, M. J.: On a Class of Amply Regular Graphs.

[*Congr. Numer.* **202** \(2010\), 155–169.](#)

- [29] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: Deletions, extensions, and reductions of elliptic semiplanes.
Innovations of Incidence Geom. **11** (2010), 139-155.
- [28] Funk, M.; Labbate, D.; Napolitano, V.: Tactical (de-)compositions of symmetric configurations.
Discrete Math. **309** (2009), 741-747.
- [27] Funk, M.: Girth 5 Graphs from Elliptic Semiplanes.
Note di Matematica **29**, suppl. 1 (2009), 91-114.
- [26] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: Configuration Graphs of Neighbourhood Geometries.
Contributions to Discr. Math. **3** (2008), 109-122.
- [25] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: A (0,1)-Matrix Framework for Elliptic Semiplanes.
Ars Comb. **88** (2008), 175-191.
- [24] Funk, M.: Cyclic Difference Sets of Positive Deficiency.
Bull. Inst. Combin. Appl. **53** (2008), 47-56.
- [23] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: A family of regular graphs of girth 5.
Discrete. Math. **308** (2008), 1810—1815.
- [22] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: Configuration Graphs of Neighbourhood Geometries.
Contributions to Discr. Math. **3** (2008), 109-122.
- [21] Abreu, M.; Funk, M.; Labbate, D.; Napolitano, V.: On (Minimal) Regular Graphs of Girth 6.
Australasian J. Comb. **35** (2006), 119-132.
- [20A] Abreu, M.; Aldred, R.E.L.; Funk, M.; Jackson, B.; Labbate, D.; Sheehan, J.: Corrigendum: Graphs and Digraphs with all 2-factors isomorphic.
J. Comb. Theory B **99** (2009), 271-273.
- [20] Abreu, M.; Aldred, R.E.L.; Funk, M.; Jackson, B.; Labbate, D.; Sheehan, J.: Graphs and Digraphs with all 2-factors isomorphic.
J. Comb. Theory B **92** (2004), 395-404.
- [19] Aldred, R.E.L.; Funk, M.; Jackson, B.; Labbate, D.; Sheehan, J.: Regular bipartite graphs with all 2-factors isomorphic.
Journal of Comb. Theory B **92** (2004), 151-161
- [18] Funk, M.; Jackson, B.; Labbate, D.; Sheehan, J.: Det-Extremal Cubic Bipartite Graphs.
J. Graph Theory **44** (2003), 50—64.
- [17] Funk, M.; Jackson, B.; Labbate, D.; Sheehan, J.: 2-Factor hamiltonian graphs.
J. Comb. Theory B **87** (2003), 138—144.
- [16] Cossidente, A.; Funk, M.; Labbate, D.: Graphs arising from mixed partitions of $PG(5,q)$.

Bull. Inst. Combin. Appl. **33** (2001), 57—67.

[15] Funk, M.; Labbate, D.: On minimally one-factorable r -regular bipartite graphs. *Discrete Math.* **216** (2000), no. 1-3, 121—137.

[14] Funk, M.; Strambach, K.: Free constructions.
In: *Handbook of incidence geometry*, 739—780, North-Holland, Amsterdam, 1995.

[13] Funk, M.: On configurations of type n_κ with constant degree of irreducibility.
J. Combin. Theory Ser. A **65** (1994), no. 2, 173—201.

[12] Funk, M.; Nagy, P. T.: On collineation groups generated by Bol reflections.
J. Geom. **48** (1993), no. 1-2, 63—78.

[11] Funk, M.; Strambach, K.: On free constructions.
Manuscripta Math. **72** (1991), no. 4, 335—374.

[10] Funk, M.: On the existence of little Desargues configurations in planes satisfying certain weak configurational conditions.
Geom. Dedicata **31** (1989), no. 2, 207—235.

[9] Funk, M.: Octagonality conditions in projective and affine planes.
Geom. Dedicata **28** (1988), no. 1, 53—75.

[8] Funk, M.: On configurations in translation planes of positive characteristic.
Abh. Math. Sem. Univ. Hamburg **56** (1986), 119—125.

[7] Funk, M.; Kegel, O. H.; Strambach, K.: Gruppenuniversalität und Homogenisierbarkeit.
Ann. Mat. Pura Appl. (4) **141** (1985), 1—126.

[6] Funk, M.: On affine planes with 3-regular group of projectivities.
Geom. Dedicata **18** (1985), no. 3, 293—324.

[5] Funk, M.; Kegel, O. H.; Strambach, K. On group universality and homogeneity. In: *Universal algebra and its links with logic, algebra, combinatorics and computer science* (Darmstadt, 1983), 173—182, Res. Exp. Math., 4, Heldermann, Berlin, 1984.

[4] Funk, M.: Vier-reguläre Möbius-Ebenen.
Arch. Math. (Basel) **40** (1983), no. 1, 86—96.

[3] Funk, M.: Der Satz von v. Staudt-Schleiermacher in Minkowski-Ebenen.
Monatsh. Math. **93** (1982), no. 1, 1—14.

[2] Funk, M.: Regularität in freien Benz-Ebenen.
Geom. Dedicata **12** (1982), no. 3, 249—265.

[1] Funk, M.: Der Satz von v. Staudt-Schleiermacher in 3-Netzen.
Arch. Math. (Basel) **37** (1981), no. 1, 85—89.

[0] Funk, M.: Regularität in Benz-Ebenen.
Doktorarbeit (PhD Thesis), Erlangen 1980.