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Research interest: Combinatorics, Differential Geometry , Quantum Physics and Symbolic Computation

Recent publications:

- [1] T.Došlić, D. Svrtan, D. Veljan „*Enumerative aspects of secondary structures*“, **Discrete Math.** 285, No.1-3, 67-82 (2004).
- [2] S.Meljanac, A. Perica, D. Svrtan „ *The energy operator for a model with a multiparametric infinite statistics*“, **J. Phys. A, Math. Gen.** 36, No.23, 6337-349 (2003).
- [3] D.Svrtan, I. Urbiha, „ *Verification and Strengthening of the Atiyah--Sutcliffe Conjectures for Several Types of Configurations*“, 49 pages, **math.AG/0609174**.
- [4] D.Svrtan, Urbiha, Igor „ *Atiyah-Sutcliffe Conjectures for Almost Collinear Configurations and Some New Conjectures for Symmetric Functions*“, 23 pages, **math.AG/0406386**.
- [5] D.Svrtan, D. Veljan, V.Volenec „ *Geometry of pentagons: from Gauss to Robbins* . 22 pages, **math.MG/0403503**.

Selected publications:

- [1] D. Svrtan, „**Proof of Scott's conjecture**“, **Proc.AMS**, 87(1983),203-207.
- [2] D.Svrtan „**New plethysm operation, Chern characters of exterior and symmetric powers with applications to Stiefel-Whitney classes of grassmannians**“, **Theor.Comp.Sci.** 1 117 (1993), 289-301.
- [3] S.Meljanac, D. Svrtan „*Study of Gram Matrices in Fock Representation of Multiparametric Canonical Commutation Relations, Extended Zagier's Conjecture, Hyperplane Arrangements and Quantum Groups*“, **Math. Commun.**1 (1996), no. 1, 1-24
- [4] D.Svrtan S.Feretic „ *Combinatorics of diagonally convex directed polyominoes*“, **Discrete Math.** 157(1996),147-168.
- [5] S.Meljanac, M.Stojic, D. Svrtan „*Partition functions for general multi-level systems*“, **Physics Letters A**, 224, Number 6, 1997 , 319-325(7).