

Bibliography from ADS file: aly.bib
 September 14, 2022

- Amari, T., Luciani, J.-F., Aly, J.-J., et al., "Necessary Conditions for a Hot Quiet Sun Atmosphere: Chromospheric Flares and Low Corona Twisted Flux Rope Eruptions", 2021AGUFMSH12B..05A [ADS](#)
- Amari, T., Canou, A., Aly, J.-J., Delyon, F., & Alauzet, F., "Magnetic cage and rope as the key for solar eruptions", 2018Natur.554..211A [ADS](#)
- Amari, T., Luciani, J.-F., & Aly, J.-J., "Small-scale dynamo magnetism as the driver for heating the solar atmosphere", 2015Natur.522..188A [ADS](#)
- Amari, T., Canou, A., & Aly, J.-J., "Characterizing and predicting the magnetic environment leading to solar eruptions", 2014Natur.514..465A [ADS](#)
- Amari, T., Aly, J. J., Canou, A., & Mikic, Z., "Reconstruction of the solar coronal magnetic field in spherical geometry", 2013A&A..553A..43A [ADS](#)
- Amari, T., Delyon, F., Alauzet, F., et al., "On Some Algorithm for Modeling the Solar Coronal Magnetic Field as MHD Equilibrium on Unstructured Mesh", 2012ASPC..459..189A [ADS](#)
- Aly, J. J. & Amari, T., "Self-gravitating Body with an Internal Magnetic Field. I. New Analytical Equilibria", 2012ApJ...750....4A [ADS](#)
- Amari, T., Delyon, F., Alauzet, F., et al., "Connecting the photosphere to the corona : Reconstructing the Solar Coronal Magnetic Field", 2012decs.confE..50A [ADS](#)
- Aly, J. J. & Amari, T., "Magnetic bubbles and magnetic towers - I. General properties and simple analytical models", 2012MNRAS.420..237A [ADS](#)
- Aly, J. J., "Nonlinear Stability of a Class of Magnetostatic Equilibria with an Application to Solar Prominences", 2012ApJ...746..52A [ADS](#)
- Amari, T., Canou, A., Delyon, F., et al., "Reconstruction of the solar coronal magnetic field, from active region to large scale", 2011sf2a.conf..389A [ADS](#)
- Amari, T., Aly, J. J., Luciani, J. F., Mikic, Z., & Linker, J., "Coronal Mass Ejection Initiation by Converging Photospheric Flows: Toward a Realistic Model", 2011ApJ...742L..27A [ADS](#)
- Amari, T. & Aly, J. J., "Observational constraints on well-posed reconstruction methods and the optimization-Grad-Rubin method", 2010A&A..522A..52A [ADS](#)
- Amari, T., Aly, J. J., Mikic, Z., & Linker, J., "Coronal Mass Ejection Initiation: On the Nature of the Flux Cancellation Model", 2010ApJ...717L..26A [ADS](#)
- Aly, J. J. & Amari, T., "Does the Compression or the Expansion of a Simple Topology Potential Magnetic Field Lead to the Development of Current Sheets?", 2010ApJ...709L..99A [ADS](#)
- Aly, J. J., "Simple analytical examples of boundary driven evolution of a two-dimensional magnetohydrostatic equilibrium", 2009A&A..507..29A [ADS](#)
- Amari, T. & Aly, J.-J., "Magnetic flux ropes: Fundamental structures for eruptive phenomena", 2009IAUS..257..211A [ADS](#)
- Amari, T., Luciani, J. F., & Aly, J. J., "Coronal Closure of Subphotospheric MHD Convection for the Quiet Sun", 2008ApJ...681L..45A [ADS](#)
- Amari, T., Aly, J. J., Mikic, Z., & Linker, J., "Coronal Mass Ejection Initiation and Complex Topology Configurations in the Flux Cancellation and Breakout Models", 2007ApJ...671L.189A [ADS](#)
- Aly, J. J. & Amari, T., "Structure and evolution of the solar coronal magnetic field", 2007GApFD.101..249A [ADS](#)
- Amari, T., Boulmezaoud, T. Z., & Aly, J. J., "Well posed reconstruction of the solar coronal magnetic field", 2006A&A..446..691A [ADS](#)
- Amari, T., Luciani, J. F., & Aly, J. J., "Non-Current-free Coronal Closure of Subphotospheric MHD Models", 2005ApJ...629L..37A [ADS](#)
- Aly, J. J., "Conservation laws and theorems of confinement and stability for a charged equatorial disk in a pulsar magnetosphere", 2005A&A..434..405A [ADS](#)
- Aly, J. J., "A stability property of a force-free surface bounding a vacuum gap", 2005A&A..429..779A [ADS](#)
- Aly, J. J., "A uniqueness result for a simple force-free magnetic field submitted to a topological constraint", 2005A&A..429..15A [ADS](#)
- Amari, T., Luciani, J. F., & Aly, J. J., "Coronal Magnetohydrodynamic Evolution Driven by Subphotospheric Conditions", 2004ApJ...615L.165A [ADS](#)
- Amari, T., Luciani, J. F., Aly, J. J., Mikic, Z., & Linker, J., "Coronal Mass Ejection: Initiation, Magnetic Helicity, and Flux Ropes. II. Turbulent Diffusion-driven Evolution", 2003ApJ...595.1231A [ADS](#)
- Amari, T., Luciani, J. F., Aly, J. J., Mikic, Z., & Linker, J., "Coronal Mass Ejection: Initiation, Magnetic Helicity, and Flux Ropes. I. Boundary Motion-driven Evolution", 2003ApJ...585.1073A [ADS](#)
- Aly, J.-J. & Perez, J., "Thermodynamics of a two-dimensional unbounded self-gravitating system", 1999PhRvE..60.5185A [ADS](#)
- Amari, T., Aly, J. J., Luciani, J. F., Boulmezaoud, T. Z., & Mikic, Z., "Reconstructing the Solar Coronal Magnetic Field as a Force-Free Magnetic Field", 1997SoPh..174..129A [ADS](#)
- Aly, J. J. & Amari, T., "Current sheets in two-dimensional potential magnetic fields. III. Formation in complex topology configurations and application to coronal heating.", 1997A&A..319..699A [ADS](#)
- Amari, T., Luciani, J. F., Aly, J. J., & Tagger, M., "Very Fast Opening of a Three-dimensional Twisted Magnetic Flux Tube", 1996ApJ...466L..39A [ADS](#)
- Perez, J., Alimi, J.-M., Aly, J.-J., & Scholl, H., "Stability of spherical stellar systems - II. Numerical results", 1996MNRAS.280..700P [ADS](#)
- Perez, J. & Aly, J.-J., "Stability of spherical stellar systems - I. Analytical results", 1996MNRAS.280..689P [ADS](#)
- Amari, T., Luciani, J. F., Aly, J. J., & Tagger, M., "Plasmoid formation in a single sheared arcade and application to coronal mass ejections.", 1996A&A..306..913A [ADS](#)
- Lepeltier, T. & Aly, J. J., "Stability of an axisymmetric massive current sheet supported by a potential magnetic field.", 1996A&A..306..645L [ADS](#)
- Aly, J. J., "Nonequilibrium in Sheared Axisymmetric Force-free Magnetic Fields", 1995ApJ...439L..63A [ADS](#)
- Lepeltier, T. & Aly, J. J., "Computation of the magnetic field around a quiescent prominence from observational data.", 1995A&A..293..906L [ADS](#)
- Lepeltier, T. & Aly, J. J., "Current sheet model of a normal prominence in which the background magnetic lines show a 'dip structure'", 1994SoPh..154..393L [ADS](#)
- Aly, J. J., Colombi, S., & Lepeltier, T., "Stability Criteria for Massive Current Sheets in Two-dimensional Potential Magnetic Fields", 1994ApJ...432..793A [ADS](#)
- Aly, J. J., "Asymptotic formation of a current sheet in an indefinitely sheared force-free field: an analytical example", 1994A&A..288.1012A [ADS](#)
- Aly, J. J., "Thermodynamics of a two-dimensional self-gravitating system", 1994PhRvE..49.3771A [ADS](#)
- Alimi, J. M., Perez, J., Aly, J. J., & Scholl, H., "Stability of collisionless self-gravitating systems.", 1994euq.conf..403A [ADS](#)
- Seehafer, N., Aly, J. J., & Schmidmann, O., "Source-Surface Model with Force-Free Fields", 1994emsp.conf..103S [ADS](#)
- Aly, J. J., "Eruptive processes in the solar corona.", 1994cmcp.conf....7A [ADS](#)
- Aly, J. J., "Minimum Energy States of a Self-Gravitating System", in V. G. Gurzadyan and D. Pfenniger (Eds.), Ergodic Concepts in Stellar Dynamics, Vol. 430, 226 1994LNP...430..226A [ADS](#)
- Perez, J. & Aly, J. J., "Recent Results on the Stability of Anisotropic Stellar Systems", in V. G. Gurzadyan and D. Pfenniger (Eds.), Ergodic Concepts in Stellar Dynamics, Vol. 430, 177 1994LNP...430..177P [ADS](#)
- Aly, J. J. & Seehafer, N., "Coronal Force-Free Magnetic Field - Source Surface Model", 1993SoPh..144..243A [ADS](#)
- Perez, J., Alimi, J. M., Aly, J. J., & Scholl, H., "Stability of Spherical Stellar Systems by Symplectic Method: Numerical Test", 1993nbpg.conf..43P [ADS](#)
- Aly, J. J., "Minimum Energy / Maximum Entropy States of a Self-gravitating System", 1993nbpg.conf..19A [ADS](#)
- Aly, J. J., "A model for magnetic energy storage and Taylor's relaxation in the solar corona. I: Helicity-constrained minimum energy state in a half-cylinder", 1993PhFlB..5..151A [ADS](#)
- Aly, J. J., "Reconnection in the solar atmosphere", 1992PPCF...34.1785A [ADS](#)
- Aly, J.-J. & Perez, J., "On the stability of a gaseous sphere against non-radial perturbations", 1992MNRAS.259..95A [ADS](#)
- Amari, T. & Aly, J. J., "Extended massive current sheet in a two-dimensional constant-alpha force-free field - A model for quiescent prominences", 1992A&A..265..791A [ADS](#)
- Aly, J. J., "Some properties of finite energy constant- α force-free magnetic fields in a half-space", 1992SoPh..138..133A [ADS](#)
- Aly, J. J., "How Much Energy Can Be Stored in a Three-dimensional Force-free Magnetic Field?", 1991ApJ...375L..61A [ADS](#)
- Aly, J. J., "The stability of a line-tied force-free magnetic field in an unbounded region of space", 1990PhFlB..2.1928A [ADS](#)
- Aly, J. J., "Quasi-static evolution of a force-free magnetic field", 1990CoPhC..59..13A [ADS](#)
- Amari, T. & Aly, J. J., "Extended massive current sheet in a two-dimensional constant-alpha force-free field - A model for quiescent prominences. I - Theory", 1990A&A..231..213A [ADS](#)
- Aly, J. J., Amary, T., & Colombi, S., "Current Sheet Models for Solar Prominences", 1990ppsa.conf..181A [ADS](#)
- Aly, J. J., "Quasi-Static Evolution of a Force-Free Magnetic Field.", 1990ppsa.conf..167A [ADS](#)
- Aly, J. J., "How much Energy can be Stored in a Stable Force-Free Magnetic Field?", 1990PDHO....7..179A [ADS](#)
- Aly, J. J., "Do Current Sheets Necessarily Form in 3D Sheared Magnetic Force-Free Fields?", 1990PDHO....7..176A [ADS](#)
- Aly, J. J. & Colombi, S., "Stability of a Massive Current Sheet Supported by a Two-Dimensional Potential Magnetic Field", 1990IAUS..142..341A [ADS](#)

- Aly, J. J., "Storage and Release of Magnetic Energy in a Force-Free Field", 1990IAUS..142..313A [ADS](#)
- Amari, T. & Aly, J. J., "Structure of two-dimensional magnetostatic equilibria in the presence of gravity", 1990GMS....58..327A [ADS](#)
- Amari, T. & Aly, J. J., "Quasi-potential-singular-equilibria and evolution of the coronal magnetic field due to photospheric boundary motions", 1990GMS....58..245A [ADS](#)
- Amari, T. & Aly, J. J., "Current Sheets in Two-Dimensional Potential Magnetic Fields - Part Two - Asymptotic Limits of Indefinitely Sheared Force-Free Fields", 1990A&A...227..628A [ADS](#)
- Aly, J. J. & Kuijpers, J., "Flaring interactions between accretion disk and neutron star magnetosphere.", 1990A&A...227..473A [ADS](#)
- Aly, J. J., "On the lowest energy state of a collisionless self-gravitating system under phase space volume constraints.", 1989MNRAS.241...15A [ADS](#)
- Aly, J. J. & Amari, T., "Current sheets in two-dimensional potential magnetic fields. I - General properties", 1989A&A...221..287A [ADS](#)
- Zylstra, G. J., Lamb, F. K., & Aly, J. J., "Magnetospheres of magnetic stars surrounded by disks.", 1989BAPS...34.1289Z [ADS](#)
- Aly, J. J., "On the Reconstruction of the Nonlinear Force-Free Coronal Magnetic Field from Boundary Data", 1989SoPh..120...19A [ADS](#)
- Amari, T. & Aly, J. J., "An analytical study of the structure of two-dimensional magnetostatic equilibria in the presence of gravity", 1989sasf.confP.271A [ADS](#)
- Aly, J. J., "Quasi-static evolution of a three-dimensional force-free magnetic field.", 1989sasf.confP.265A [ADS](#)
- Aly, J. J., "Quasi-static evolution of a force-free magnetic field and conditions for the onset of a stellar flare.", 1989sasf.confP.259A [ADS](#)
- Amari, T. & Aly, J. J., "Two-dimensional isothermal magnetostatic equilibria in a gravitational field. I - Unsheared equilibria", 1989A&A...208..361A [ADS](#)
- Amari, T. & Aly, J. J., "Interaction between a line current and a two-dimensional constant-alpha force-free field - an analytical model for quiescent prominences", 1989A&A...208..261A [ADS](#)
- Aly, J. J. & Amari, T., "Two-dimensional non-symmetric models of quiescent prominences in potential magnetic fields", 1988A&A...207..154A [ADS](#)
- Aly, J. J., "Some properties of the solutions of a non-linear boundary value problem for a force-free field in an infinite region of space. I - Energy estimates", 1988A&A...203..183A [ADS](#)
- Amari, T. & Aly, J. J., "Some integral properties of two-dimensional force-free fields supporting massive current sheets", 1988A&A...193..291A [ADS](#)
- Aly, J. J., "Quasi-static evolution of a force-free magnetic field - Applications to the theory of stellar flares and coronal heating", 1988ASSL..143..153A [ADS](#)
- Aly, J. J., "On the uniqueness of the determination of the coronal potential magnetic field from line-of-sight boundary conditions.", 1987SoPh..111..287A [ADS](#)
- Aly, J. J., "Evolving magnetostatic equilibria.", 1987imfo.work..240A [ADS](#)
- Aly, J. J., "Some topics in the magnetohydrodynamics of accreting magnetic compact objects", 1986AIPC..144..45A [ADS](#)
- Aly, J., "Structure of the Magnetospheres of Accreting Magnetic Compact Objects", 1986ppm..conf..125A [ADS](#)
- Aly, J. J., "Magnetospheres of accreting compact objects in binary systems", 1986csmss.col1..25A [ADS](#)
- Aly, J. J. & Amari, T., "Some New Results in the Theory of Two-Dimensional Magnetostatic Equilibria", 1985tphr.conf..319A [ADS](#)
- Aly, J. J., "Quasi-static evolution of sheared force-free fields and the solar flare problem.", 1985A&A...143..19A [ADS](#)
- Aly, J. J. & Amari, T., "Some new results in the theory of two-dimensional magnetostatic equilibria", 1985MPARp.212..319A [ADS](#)
- Aly, J. J., "Quasi-static evolution of force-free magnetic fields and a model for two-ribbon solar flares", 1985IAUS..107..221A [ADS](#)
- Aly, J. J., "Opening of the magnetic field lines in a fast rotating magnetosphere, with an application to Jupiter", 1985IAUS..107..217A [ADS](#)
- Lamb, F. K., Aly, J. J., Cook, M. C., & Lamb, D. Q., "Synchronization of Magnetic White Dwarfs in Close Binary Systems", 1985ASSL..113..237L [ADS](#)
- Zylstra, G. J., Lamb, F. K., Aly, J. J., & Cohn, H., "Disk Accretion by Magnetic Stars", 1984BAAS..16..944Z [ADS](#)
- Aly, J. J., "On some properties of force-free magnetic fields in infinite regions of space", 1984ApJ...283..349A [ADS](#)
- Lamb, F. K., Aly, J. J., Cook, M. C., & Lamb, D. Q., "Synchronization of magnetic stars in binary systems", 1983ApJ...274L..71L [ADS](#)
- Aly, J. J., "Creation of current sheets in sheared force-free fields and two-ribbon solar flares", 1983ICRC....4....2A [ADS](#)
- Aly, J. J., "Electrodynamics of disk accretion onto magnetic neutron star", 1980A&A...86..192A [ADS](#)
- Aly, J. J., "Has the Universe always been very regular?", 1979MNRAS.189..479A [ADS](#)