

Publications of the Radio Astronomy and Plasma Physics Group (RAG and RAPP)

Institute of Astronomy, ETH Zurich

Verfasser	Titel	Publikationsorgan
A.O.Benz T.Gold	Magnetically Trapped Particles in the Lower Solar Atmosphere	Solar Physics 21 , 157-166 (1971)
A.O.Benz	Harmonic Structure in a Solar Type V Burst	Nature (Physical Sciences) 242 , 38-39 (1973)
A.O.Benz	A Possible Mechanism for Type V Bursts	Proc. 4th Meeting CESRA (ed. E.Schanda), 157-158 (1974)
A.O.Benz A.Tlamicha H.Urbarz	The Complex Radio Burst of May 3,1973	Proc. 4th Meeting CESRA (ed. E.Schanda), Suppl. 1-7 (1974)
B.von Arx A.O.Benz G.L.Tarnstrom	The New Digitalized Solar Radio Spectrograph in Dürnten	Bulletin American Astron.Soc. 7 , 407 (1975)
A.O.Benz G.L.Tarnstrom	Type IV dm Bursts vs. The Razin Effect	Bulletin American Astron.Soc., 7 , 439 (1975)
A.O.Benz H.K.Aasper	Simulation of Analog Spectrograms of Solar Radio Bursts	Kleinheubacher Berichte 19 , 383 (1975)
G.L.Tarnstrom C.Zehntner	Unusual series of type III-RS solar radio bursts	Nature, 258 , 693 - 694 (1975)
M.R.Perrenoud A.O.Benz G.L.Tarnstrom	First Digital Observations with the Dürnten Radio Spectrograph	Osservazioni e Memorie (Proceedings of ESMOC) 105 , 121 (1975)
A.O.Benz G.L.Tarnstrom	Synchrotron or Plasma Process Emission in Narrow Band Type IV dm Bursts?	Astrophysical Journal 204 , 597-603 (1976)
G.L.Tarnstrom	Approximations for gyrosynchrotron emissivity in a weak, isotropic plasma	Astronomy and Astrophysics, 49 , 31 - 38 (1976)
A.O.Benz J.Kuijpers	Type IV dm Bursts:Onset and Sudden Reductions	Solar Physics 46 , 275-290 (1976)
A.O.Benz	New Features in Hard X-Ray and Radio Spectra of Solar Outbursts and Implications on Particle Acceleration	Bulletin American Astron.Soc. 8 , 374 (1976)
A.O.Benz	Short, Drifting Spikes in the cm-dm Radio Emission of the Active Sun	Kleinheubacher Berichte 20 , 376 (1976)
G.L.Tarnstrom	Peak frequency of gyrosynchrotron emissivity of weakly relativistic electrons in an isotropic plasma	Astronomy and Astrophysics, 58 , 181 - 184 (1977)
A.O.Benz	Spectral Features in Solar Hard X-Ray and Radio Events and Particle Acceleration	Astrophysical Journal 211 , 25 270-280 (1977)
W.G.Pilipp A.O.Benz	On the Scattering Hypothesis for Type V Radio Bursts	Astronomy and Astrophysics 56 , 39 (1977)
A.O.Benz M.Berney P.Santin	The Polarization of U-Shaped Solar Radio Bursts	Astronomy and Astrophysics 56 , 123 (1977)

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A.O.Benz T. Gold	On the Kinetics of Solar Wind Acceleration	Astronomy and Astrophysics 55 , 229 (1977)
A.O.Benz P.Zlobec	Correlation between Drift Rate and Polarization in Solar Type III Radio Bursts	Astronomy and Astrophysics 63 , 137-145 (1978)
M. Berney A.O.Benz	Plasma Instabilities of Trapped Particles in Solar Magnetic Fields	Astronomy and Astrophysics 65 , 369-384 (1978)
A.O.Benz M.Berney M.R.Perrenoud	Spectral Evolution of March/April 1976 Decimetric Type IV Radio Events	Report UAG-61, World Data Center A, p.141 (1977)
G.L.Tarnstrom A.O.Benz	An Extremely Narrowband Solar Type IV _{dm} Burst with Fine Structure	Astronomy and Astrophysics 63 , 147-154 (1978)
A.O.Benz	Transient Aspects of the Corona Including Flare Related Events	Contexte coronal des Eruptions Solaires (ed.Dumont and Rösch) p. 267-296 (1978)
A.O.Benz H.R.Fitze	Microwave Radar Observations of the Sun	Astronomy and Astrophysics 76 , 354-355 (1979)
A.O.Benz H.Urbarz P.Zlobec	The Evolution of Polarization in Type U Solar Radio Bursts	Astronomy and Astrophysics 79 , 216-222 (1979)
A.O.Benz D.G.Wentzel	Type I Solar Radio Bursts	Bulletin American Astron.Soc. 11 , 4412 (1979)
A.O.Benz D.G.Wentzel	Solar Type I Radio Bursts: An Ion-Acoustic Wave Model	IAU Symp.Nr.86, Radiophysics of the Sun (eds.M.R.Kundu and T.E.Gergely), pp.251-254 (1980)
A.O.Benz H.R.Fitze	First Solar Radar Observations in Microwaves	IAU Symp.Nr.86, Radiophysics of the Sun (eds.M.R.Kundu and T.E.Gergely), pp. 247-250 (1980)
A.O.Benz	Electron Trapping in the Solar Magnetic Field and Emission of Decimetric Continuum Radio Bursts	Astrophys.J. 240 , 892-907 (1980)
T.Bernold	A Catalogue of Fine Structures in Type IV Solar Radio Bursts	Astronomy and Astrophysics Suppl.Ser. 42 , 43-58 (1980)
A.O.Benz D.G.Wentzel	Coronal Evolution and Solar Type I Radio Bursts: An Ion-Acoustic Wave Model	Astronomy and Astrophysics 94 , 100-108 (1981)
G.Trottet A.Kerdrion A.O.Benz R.Treumann	Quasi-Periodic Short Term Modulations During a Moving Type IV Burst	Astronomy and Astrophysics 93 , 129-135 (1981)
A.O.Benz	Solar Radar Observations	Solar and Interplanetary Dynamics, M.Dryer and E.Tandberg-Hanssen (eds.), 135-138 (1980)
D.M.Rust A.O.Benz G.J.Hurford G.Nelson M.Pick V.Ruzdjak	Optical and Radio Observations of the 29 March, 30 April and 7 June 1980 Flares	Astrophysical Journal Let. 244 , L 179-L 183 (1981)

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H.R.Fitze A.O.Benz	The Microwave Solar Radar Experiment I:Observations	Astrophysical Journal 250 , 782-790 (1981)
R. Treumann T.E.X. Bernold	Radiation from a Whistler Soliton in Interaction with a Plasma Wave	Phys.Rev.Letters 47 , 1455-1458 (1981)
M.Jaeggi A.O.Benz	Search for Harmonic Emission in Solar Type I Radio Bursts	Astronomy and Astrophysics 107 , 88-92 (1982)
A.O.Benz R.Treumann N.Vilmer A.Mangency M.Pick A.Raoult	Evidence of Primary and Secondary Bursts in Solar Type III Emission	Astronomy and Astrophysics 108 , 161-168 (1982)
D.S.Spicer A.O.Benz J.D.Huba	Solar Type I Noise Storms and Newly Emerging Magnetic Flux	Astronomy and Astrophysics 105 , 221-228 (1982)
A.O.Benz P.Zlobec M.Jaeggi	Fine Structure near the Starting Frequency of Solar Type III Radio Bursts	Astronomy and Astrophysics 109 , 305-313 (1982)
E.Fürst A.O.Benz W.Hirth	About the Relation Between Radio and Soft X-Ray	Astronomy and Astrophysics 107 , 178-185 (1982)
S.R.Kane A.O.Benz R.A.Treumann	Electron Acceleration in Impulsive Solar Flares	Astrophysical Journal 263 , 423-432 (1982)
I.N.Garczyńska B.Rompolt A.O.Benz C.Slottje A.Tlamicha C.Zanelli	The Relation Between the Surges and Solar Radio Emission	Solar Physics 77 , 277-283 (1982)
A.O.Benz H.K.Aspen	The 120-800 MHz Radio Spectrum of the November 22, 1977 Outburst	World Data Center A, Report UAG- 83 , 109-115 (1982)
C.H.Barrow A.Lacacheux Y.LebLANc	Arc Structures in the Jovian Decametric Emission Observed from the Earth and from Voyager	Astronomy and Astrophysics 106 , 94-97 (1982)
A. O. Benz P. Zlobec (eds.)	Solar Noise Storms	Proceedings of the 4th CESRA Workshop, Trieste, 1982 (365 pages)
C.H.Barrow A.O.Benz T.E.X.Bernold M.R.Perrenoud	Millisecond Structures in Noise Storms and Other Solar Radio Emission	Solar Radio Storms (A.O.Benz and P.Zlobec,eds.) 109-118 (1982)
A.O.Benz	Langmuir Wave Energy Density in Radio Storm Sources	Solar Radio Storms (A.O.Benz and P.Zlobec, eds.) 38-51 (1982)
M.R.Perrenoud	The Computer-Controlled Solar Radio Spectrometer 'IKARUS'	Solar Physics 81 , 197-203 (1982)

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T.E.X.Bernold R.A.Treumann	The Fibre Structure During Solar Type IV Radio Bursts	Astrophysical Journal 264 , 677-687 (1983)
A.O.Benz Barrow B.R.Dennis M.Pick A.Raoult G.Simnett	X-Ray and Radio Emissions in the Early Stages of Solar Flares	Solar Physics 83 , 267-283 (1983)
A.O.Benz T.E.X.Bernold B.R.Dennis	Radio Blips and Hard X-Rays in Solar Flares	Astrophysical Journal 271 , 355 (1983)
A.O.Benz E.Fürst A.Kiplinger	First Detection of Radio Emission from a Dwarf Nova	Nature 302 , 45-46 (1983)
B.Roberts P.M.Edwin A.O.Benz	Fast Pulsations in the Solar Corona	Nature 305 , 688-690 (1983)
A.O.Benz M.J.Aschwanden H.J.Wiehl	Decimetric Radio Emission	Solar Physics and Interplanetary Travelling Phenomena, C. de Jager and Chen Biao (eds.) Science Press, Beijing, 597-603 (1985)
B.Roberts P.M.Edwin A.O.Benz	On Coronal Oscillations	Astrophysical Journal 279 , 857-865 (1984)
J.L.Bougeret A.O.Benz (eds.)	Orages Solaires de Type I	Editions du CNRS, (204 pages) (1984)
A.O.Benz	Noise Storms and Their Place in the Solar Radio Zoo	Orages Solaires de Type I, Editions du CNRS, 35-37 (1984)
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A.O.Benz M.Jaeggi J.Mosher G.J.Nelson	On the Spatial and Temporal Correlation of Type I Radio Bursts with Soft X-Rays	Orages Solaires de Type I, Editions du CNRS, 145-148 (1984)
A.O.Benz P.Zolliker	The Polarization of the Noise Storm Continuum and Upper Limit on Harmonic Emission	Orages Solaires de Type I, Editions du CNRS, 167-170 (1984)
M.Jaeggi	Observations of the Harmonic Frequency of Type I Bursts	Orages Solaires de Type I, Editions du CNRS, 157-159 (1984)
R.A.Treumann	The Problem of Reconnection: Energy Release in the Geomagnetic Tail	Orages Solaires de Type I, Editions du CNRS, 45-53 (1984).
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K.T.Strong A.O.Benz B.R.Dennis J.W.Leibacher R.Mewe A.I.Poland J.Schrijver G.Simnett J.B.Smith,Jr. J.Sylwester	A Multiwavelength Study of a Double Impulsive Flare	Solar Physics, 91 , 325 - 344 (1984)
A.O.Benz	Zukunft der Astronomie	Orion, 200 , 6-9 (1984)
A.O.Benz	Particle Acceleration in Solar Flares	Proceedings of the International Conference on Plasma Physics, Lausanne, p. 288 (1984)
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M.J. Aschwanden H.J.Wiehl A.O. Benz S.R. Kane	Correlation of Solar Decimetric Radio Bursts with X-Ray Flares	Solar Physics 97 , 159-172 (1985)
H.J. Wiehl A.O. Benz M.J. Aschwanden	Different Time Constants of Solar Decimetric Bursts in the Range 100-1000 MHz	Solar Physics 95 , 167-179 (1985)
A.O. Benz	Solar Max di nuovo in forma	Astronomia, 37 , 52-56 (1984)
A.O. Benz	Particle Acceleration by Turbulent Plasmas	Trends in Physics 1984 (J. Janta and J. Pantoflicek, eds.) Proc. 6th General Conference of EPS, Vol. 1, 156-161.
A.O. Benz	Radio Spikes and the Fragmentation of Flare Energy Release	Solar Physics 96 , 357-370 (1985)
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A.O. Benz	Millisecond Radio Spikes	Solar Physics, 104 , 99-110 (1986)
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A.O. Benz	Extremely Rapid Radio Spikes in Flares	NASA CP-2449,133-144, (1986)
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A.O. Benz E. Fřst	Are Solar Radio Fluctuations Real?	Astronomy and Astrophysics 175 , 282-286 (1987)
A.O. Benz G.M.Simnett	Solar Radio Signatures Suggestive of Proton Beams	Nature 320 , 508-509, (1986)
G.M. Simnett A.O. Benz	The Role of Metric and Decimetric Radio Emission in The Understanding of Solar Flares	Astronomy and Astrophysics 165 , 227-234 (1986)
M. Stähli A.O. Benz	Microwave Emission of Solar Electron Beams	Astronomy and Astrophysics 175 , 271-276 (1987)
A.O. Benz D.F. Smith	Stochastic Acceleration of Electrons in Solar Flares	Solar Physics 107 , 299-309 (1987)
M. Aschwanden	Theory of Radio Pulsations in Coronal Loops	Solar Physics 111 , 113-136 (1987)
A.O. Benz	Acceleration and Energyzation by Currents and Electric Fields	Solar Physics 111 , 1-18 (1987)
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M.J. Aschwanden A.O. Benz	On the Electron-Cyclotron Maser Instability: I. Quasi-linear Diffusion into the Loss-Cone	Astrophysical Journal 332 , 447-465 (1988)
M.J. Aschwanden A.O. Benz	On the Electron-Cyclotron Maser Instability: II. Pulsations in the Quasi-Stationary State	Astrophysical Journal 332 , 466-475 (1988)

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K.-L. Klein G. Trottet A.O. Benz S.R. Kane	Extended Coronal Shock Waves and Electron Acceleration During Solar Flares	Proceed. of Varenna Workshop on Plasma Astrophysics, ESA SP-285, 1 , 157-160 (1988)
A.O. Benz	Plasmaphysik	VdF-Verlag, Zürich, 111 Seiten, 1988
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M. Güdel A.O. Benz	Time Profiles of Solar Radio Spikes	Astronomy and Astrophysics 231 , 202-212 (1990)
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J. Kurths A.O. Benz M.J. Aschwanden	The Attractor Dimension of Solar Decimetric Radio Pulsations	Astronomy and Astrophysics 248 , 270-276 (1991)
M.J. Aschwanden	Relaxation of a Loss-Cone by Quasi-linear Diffusion of the Electron-Cyclotron Maser Instability in the Solar Corona	Astronomy and Astrophysics Supplement Series 85 , 1141-1177 (1990)
M.J. Aschwanden A.O. Benz R.A. Schwartz R.P. Lin R.M. Pelling W. Stehling	Flare Fragmentation and Type III Productivity in the 1980 June 27 Flare	Solar Physics 130 , 39-55 (1990)
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H.S. Sawant C.J.B. Lattari A.O. Benz B.R. Dennis	Hard X-Rays and Associated Weak Decimetric Bursts	Solar Physics 130 , 57-73 (1990)
R.F. Willson A.O. Benz	VLA-PHOENIX Observations of a Narrow-Band Decimetric Burst	Basic Plasma processes of the Sun, (E.R. Priest, V. Krishan, eds.), IAU Symp. 142 , 525-526 (1990)
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M. Güdel	Solar Radio Spikes Radiation at Harmonics $s = 2,3,4,5$	Astronomy and Astrophysics 239 , L1-L4 (1990)
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M.J. Aschwanden B.R. Dennis A.O. Benz	Simultaneous Radio and Hard X-Ray Observations	Proc.of the Workshop on 'Max'91/SMM Solar Flares' (R.M. Winglee et al., eds.) 234-243 (1990)
A.O. Benz W. Alef	VLBI Observations of YZ CMi — a single dMe Star	Astronomy and Astrophysics 252 , L19-L22 (1991)
A.O. Benz M.J. Aschwanden	Characteristics of the Impulsive Phase of Flares	Lecture Notes in Physics 399 , 106-115 (1992)
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H. Isliker J. Kurths	A Test for Stationarity: Finding Parts in Time Series Apt for Correlation Dimension Estimates	Int.J. Bifurcation and Chaos 3 , 1573-1579 (1993)
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U. Schwarz A.O. Benz J. Kurths A. Witt	Analysis of Solar Spike Events by Means of Symbolic Dynamics Methods	Astronomy and Astrophysics 277 , 215-224 (1993)
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M. Güdel A.O. Benz	X-Ray/Microwave Relation of Different Types of Active Stars	Astrophysical Journal 405 , L63-L66 (1993)
M. Güdel J.H.M.M. Schmitt A.O. Benz	Discovery of Microwave Emission from Solar-type G Stars	Science 265 , 933-935 (1994)
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