

# PUBLICATION LIST

## Dr. Markus Kissler-Patig

Status: August 2009

Note: Prior to 1995 I published under M. Kissler, since then under M. Kissler-Patig.  
Several publications are submitted or in press, but only articles that appeared are listed below.

### 1 Refereed Publications

2009

- (70) • M.D.Mora, S.S.Larsen, **M.Kissler-Patig**, J.P.Brodie, T.Richtler: "Imaging of star clusters in unperturbed spiral galaxies with the Advanced Camera for Surveys. II. A comparison of star cluster systems in five late type spirals", 2009, A&A 501, 949-964
- (69) • S.Mieske, M.Hilker, I.Misgeld, A.Jordán, L.Infante, **M.Kissler-Patig**: "A search for massive ultra-compact dwarf galaxies in the Centaurus galaxy cluster", 2009, A&A 489, 705-710
- (68) • S.Perina, P.Barmby, M.A.Beasley, M.Bellazzini, J.P.Brodie, D.Burstein, J.G.Cohen, L.Federici, F.Fusi Pecci, S.Galleti, P.W.Hodge, J.P.Huchra, **M.Kissler-Patig**, T.H.Puzia, J.Strader: "An HST/WFPC2 survey of bright young clusters in M31. I. VdB0, a massive star cluster seen at  $t \approx 25$  Myr", 2009, A&A 494, 933-948

2008

- (67) • **M.Kissler-Patig**, J.F.Pirard, M.Casali, A.Moorwood, N.Ageorges, C.Alves de Oliveira, P.Baksai, L.R.Bedin, E.Bendek, P.Biereichel, B.Delabre, R.Dorn, R.Esteves, G.Finger, D.Gojak, G.Huster, Y.Jung, M.Kiekebush, B.Klein, F.Koch, J.-L.Lizon, L.Mehrgan, M.Petr-Gotzens, J.Pritchard, F.Selman, J.Stegmeier: "HAWK-I: the high-acuity wide-field K-band imager for the ESO Very Large Telescope", 2008, A&A 491, 941-950
- (66) • M.D.Mora, S.S.Larsen, **M.Kissler-Patig**: "Spectroscopy of globular clusters in the low-luminosity spiral galaxy NGC 45", 2008, A&A 489, 1065-1071
- (65) • C.Lidman, P.Rosati, M.Tanaka, V.Strazzullo, R.Demarco, C.Mullis, N.Ageorges, **M.Kissler-Patig**, M.G.Petr-Gotzens, F.Selman: "HAWK-I imaging of the X-ray luminous galaxy cluster XMMU J2235.3-2557. The red sequence at  $z = 1.39$ ", 2008, A&A 489, 981-988
- (64) • S.Mieske, M.Hilker, A.Jordán, L.Infante, **M.Kissler-Patig**, M.Rejkuba, T.Richtler, P.Côté, H.Baumgardt, M.J.West, L.Ferrarese, E.W.Peng: "The nature of UCDs: Internal dynamics from an expanded sample and homogeneous database", 2008, A&A 487, 921-935
- (63) • D.Villegas, **M.Kissler-Patig**, A.Jordán, P.Goudfrooij, M.Zwaan: "Normal Globular Cluster Systems in Massive Low Surface Brightness Galaxies", 2008, AJ 135, 467-478

2007

- (62) • M.Messineo, M.G.Petr-Gotzens, F.Schuller, K.M.Menten, H.J.Habing, **M.Kissler-Patig**, M.Modigliani, J.Reunanen: "Integral-field spectroscopy of the Galactic cluster [DBS2003]8. Discovery of an ultra-compact HII region and its ionizing star in the bright rimmed cloud SFO49", 2007, A&A 472, 471-483
- (61) • S.Mieske, M.Hilker, A.Jordán, L.Infante, **M.Kissler-Patig**: "A search for ultra-compact

dwarf galaxies in the Centaurus galaxy cluster”, 2007, A&A 472, 111-119

(60) • K.Kjaer, B.Leibundgut, C.Fransson, P.Grningsson, J.Spyromilio, **M.Kissler-Patig**: “Infrared integral field spectroscopy of SN 1987A”, 2007, A&A 471, 617-624

(59) • D.E.A.Nürnbergger, R.Chini, F.Eisenhauer, **M.Kissler-Patig**, A.Modigliani, R.Siebenmorgen, M.F.Sterzik, T.Szeifert: “Formation of a massive protostar through disk accretion. II. SINFONI integral field spectroscopy of the M17 silhouette disk and discovery of the associated H<sub>2</sub> jet”, 2007, A&A 465, 931-936

(58) • M.D.Mora, S.S.Larsen, **M.Kissler-Patig**: “Imaging of star clusters in unperturbed spiral galaxies with the Advanced Camera for Surveys. I. The low luminosity galaxy NGC 45”, 2007, A&A 464, 495-505

(57) • M.Hempel, **M.Kissler-Patig**, T.H.Puzia, M.Hilker: “The age structure of globular cluster systems in early-type galaxies and its dependence on host galaxy properties”, 2007, A&A 463, 493-502

## 2006

(56) • S.Mieske, A.Jordán, P.Côté, **M.Kissler-Patig** et al. (7 more co-authors): “The ACS Virgo Cluster Survey. XIV. Analysis of Color-Magnitude Relations in Globular Cluster Systems”, 2006, ApJ 653, 193-206

(55) • Y.Schubert, T.Richtler, B.Dirsch, M.Hilker, S.S.Larsen, **M.Kissler-Patig**, U.Mebold: “Dynamics of the NGC 4636 globular cluster system. An extremely dark matter dominated galaxy?”, 2006, A&A 459, 391-406

(54) • T.H.Puzia, **M.Kissler-Patig**, P.Goudfrooij: “Extremely  $\alpha$ -Enriched Globular Clusters in Early-Type Galaxies: A Step toward the Dawn of Stellar Populations?”, 2006, ApJ 648, 383-388

(53) • P.Goudfrooij, D.Gilmore, **M.Kissler-Patig**, M.Maraston: “Integrated-light VRI imaging photometry of globular clusters in the Magellanic Clouds”, 2006, MNRAS 369, 697-704

(52) • N.Bastian, R.P.Saglia, P. Goudfrooij, **M.Kissler-Patig**, C.Maraston, F.Schweizer, M.Zoccali: “Dynamical Mass Estimates for Two Luminous Star Clusters in Galactic Merger Remnants”, 2006, A&A 448, 881-891

(51) • **M.Kissler-Patig**, A.Jordán, N.Bastian: “The Transition between Star Clusters and Dwarf Galaxies – On the existence of a mass-radius relation for star clusters of masses  $> 10^7 M_{\odot}$ : are these objects formed in mergers of stellar systems?”, 2006, A&A 448, 1031-1035

(50) • N.Bastian, E.Emsellem, **M.Kissler-Patig**, M.Maraston: “Young star cluster complexes in NGC 4038/39. Integral field spectroscopy using VIMOS”, 2006, A&A 445, 471-483

## 2005

(49) • A.Kundu, S.E.Zepf, M.Hempel, D.Morton, K.M.Ashman, T.J.Maccarone, **M.Kissler-Patig**, T.H.Puzia, E.Vesperini: “The Ages of Globular Clusters in NGC 4365 Revisited with Deep HST Observations”, 2005, ApJ 634, L41-L44

(48) • N.Bastian, M.Hempel, **M.Kissler-Patig**, N.Homeier, G.Trancho: “The star cluster population in the tidal tails of NGC 6872”, 2005, A&A 435, 65-75

(47) • F.Eisenhauer et al. (21 authors incl. **M.Kissler-Patig**): “SINFONI in the Galactic Center: Young Stars and Infrared Flares in the Central Light-Month”, 2005, ApJ 628, 246-259

(46) • T.H.Puzia, **M.Kissler-Patig**, D.Thomas, C.Maraston, R.P.Saglia, R.Bender, P.Goudfrooij, M.Hempel: “VLT spectroscopy of globular cluster systems. II. Spectroscopic ages, metallicities, and [  $\alpha$ /Fe ] ratios of globular clusters in early-type galaxies”, 2005, A&A 439, 997-1011

## 2004

- (45) • M.Hempel, **M.Kissler-Patig**: “Intermediate-age globular clusters in early-type galaxies: Better age determinations by adding U-band observations to the V, I, K datasets”, 2004, A&A 428, 459-467
- (44) • M.A.Beasley, D.A.Forbes, J.P.Brodie, **M.Kissler-Patig**: “Keck Spectroscopy and Imaging of Globular Clusters in the Lenticular Galaxy NGC 524”, 2004, MNRAS 347, 1150-1163
- (43) • **M.Kissler-Patig**, Y.Copin, P.Ferruit, A.Pécontal-Rousset, M.M.Roth: “The Euro3D data format: A common FITS data format for integral field spectrographs”, 2004, AN 325, 159-162
- (42) • M.Hempel, **M.Kissler-Patig**: “Extragalactic Globular Clusters in the Near Infrared – IV. Quantifying the Age Structure using Monte-Carlo Simulations”, 2004, A&A 419, 863-876
- (41) • C.Maraston, N.Bastian, R.P.Saglia, **M.Kissler-Patig**, F.Schweizer, P.Goudfrooij: “The dynamical mass of the young cluster W3 in NGC 7252: Heavy-Weight globular cluster or ultra compact dwarf galaxy?”, 2004, A&A 416, 467-473
- (40) • T.H.Puzia, **M.Kissler-Patig**, D.Thomas, C.Maraston, R.P.Saglia, R.Bender, T.Richtler, P.Goudfrooij, M.Hempel: “VLT Spectroscopy of Globular Cluster Systems, I. The Photometric and Spectroscopic Data Set”, 2004, A&A 415, 123-143

## 2003

- (39) • P.Goudfrooij, J.Strader, L.Brenneman, **M.Kissler-Patig**, D.Minniti, J.E.Huizinga: “HST observations of globular cluster systems along the Hubble sequence of spiral galaxies”, 2003, MNRAS 343, 665-678
- (38) • M.Hempel, M.Hilker, **M.Kissler-Patig**, T.H.Puzia, D.Minniti, P.Goudfrooij: “Extragalactic Globular Clusters in the Near Infrared – III. NGC 5846 and NGC 7192”, 2003, A&A 405, 487-497
- (37) • C.Maraston, L.Greggio, A.Renzini, S.Ortolani, R.P.Saglia, T.H.Puzia (USM-Munich), **M.Kissler-Patig**: “Integrated Spectroscopy of Bulge Globular Clusters and Fields. II. Implications for stellar population models and elliptical galaxies”, 2003, A&A 400, 823-840
- (36) • S.S.Larsen, J.P.Brodie, M.A.Beasley, D.A.Forbes, **M.Kissler-Patig**, H.Kuntschner, T.H.Puzia: “Evidence for An Intermediate-Age, Metal-rich Population of Globular Clusters in NGC 4365”, 2003, ApJ 585, 767-774

## 2002

- (35) • T.H.Puzia, R.P.Saglia, **M.Kissler-Patig**, C.Maraston, L.Greggio, A.Renzini, S.Ortolani: “Integrated Spectroscopy of Bulge Globular Clusters and Fields – I. The Data Base and Comparison of Individual Indices in Clusters and Bulge”, 2002, A&A 395, 45-67
- (34) • T.H.Puzia, S.E.Zepf, **M.Kissler-Patig**, M.Hilker, D.Minniti, P.Goudfrooij: “Extragalactic Globular Clusters in the Near Infrared – II. The Globular Clusters Systems of NGC 3115 and NGC 4365”, 2002, A&A 391, 453-470
- (33) • **M.Kissler-Patig**, J.P.Brodie, D.Minniti: “Extragalactic Globular Clusters in the Near Infrared – I. A comparison between M87 and NGC 4478”, 2002, A&A 391, 441-452
- (32) • L.L.Schroder, J.P.Brodie, **M.Kissler-Patig**, J.P.Huchra, & A.C.Phillips: “Spectroscopy of Globular Clusters in M81 with the Keck Telescope”, 2002, AJ 123, 2473-2489

## 2001

- (31) • D.A.Forbes, M.Beasley, J.P.Brodie, **M.Kissler-Patig**: “Age Estimates for Globular Clusters in NGC 1399”, 2001, ApJL 563, 143-146
- (30) • S.Mei, **M.Kissler-Patig**, D.R.Silva, P.J.Quinn: “K-band Surface Brightness Fluctuations in NGC 1427 and NGC 720”, 2001, A&A 376, 793-802
- (29) • C.Maraston, **M.Kissler-Patig**, J.P.Brodie, P.Barmby, J.P.Huchra: “The AGB phase-

transition outside the local group: K-band observations of young star clusters in NGC 7252", 2001, A&A 370, 176-193

(28) • P.Goudfrooij, J.Mack, **M.Kissler-Patig**, G.Meylan, D.Minniti: "Kinematics, ages and metallicities of star clusters in NGC 1316: a 3-Gyr-old merger remnant", 2001, MNRAS 322, 643-657

(27) • D.Burgarella, **M.Kissler-Patig**, V.Buat: "Globular Cluster Systems II: On the Formation of Old Globular Clusters and their Sites of Formation", 2001, AJ 121, 2647-2656

## 2000

(26) • J.P.Brodie, S.S.Larsen, **M.Kissler-Patig**: "A new look at globular cluster colors in NGC 3311 and the case for exclusively metal-rich globular cluster systems", 2000, ApJ 543, L19-22

(25) • T.H.Puzia, **M.Kissler-Patig**, J.P.Brodie, & L.L.Schroder: "Globular Clusters in the dE,N galaxy NGC 3115 DW1: New Insights from Spectroscopy and HST Photometry", 2000, AJ 120, 777-790

(24) • R.J.N.Brown, D.A.Forbes, **M.Kissler-Patig**, J.P. Brodie: "Imaging of the proto-elliptical NGC 1700 and its globular cluster system", 2000, MNRAS 317, 406-420

## 1999

(23) • T.H.Puzia, **M.Kissler-Patig**, J.P.Brodie, J.P.Huchra: "The Age Difference between the Globular Cluster Sub-populations in NGC 4472", 1999, AJ 118, 2734-2750

(22) • K.Gebhardt, **M.Kissler-Patig**: "Globular Cluster Systems I.: V-I Color Distributions", 1999, AJ 118, 1526-1541

(21) • **M.Kissler-Patig**, K.M.Ashman, S.E.Zepf, K.C.Freeman: "HST Imaging of Globular Clusters in the Edge-on Spiral Galaxies NGC 4565 and NGC 5907", 1999, AJ 118, 197-207

(20) • S.Chapelon, V.Buat, D.Burgarella, **M.Kissler-Patig**: "The globular cluster system around the low-luminosity S0 galaxy NGC 7457", 1999, A&A 346, 721-730

(19) • **M.Kissler-Patig**, C.J.Grillmair, G.Meylan, J.P.Brodie, D.Minniti, P.Goudfrooij: "Toward an Understanding of the Globular Cluster Over-abundance around the Central Giant Elliptical NGC 1399", 1999, AJ 117, 1206-1218

(18) • M.Hilker, L.Infante, G.Vieira, **M.Kissler-Patig**, T.Richtler: "The Central Regions of the Fornax Cluster – II: Spectroscopy and radial velocities of member and background galaxies", 1999, A&AS 134, 75-86

(17) • M.Hilker, **M.Kissler-Patig**, T.Richtler, L.Infante: "The Central Regions of the Fornax Cluster – I: A catalog and photometric properties of dwarf galaxies in selected CCD fields", 1999, A&AS 134, 59-73

## 1998

(16) • **M.Kissler-Patig**, K.Gebhardt: "The Spin of M87 as measured from the Rotation of its Globular Clusters", 1998, AJ 116, 2237-2245

(15) • J.P.Brodie, L.L.Schroder, J.P.Huchra, A.C.Phillips, **M.Kissler-Patig**, D.A.Forbes: "Spectroscopy of Proto-globular Clusters in NGC 1275", 1998, AJ 116, 691-706

(14) • M.Della Valle, **M.Kissler-Patig**, J.Danziger, J.Storm: "Globular Cluster Calibration of the Peak Brightness of the Type Ia Supernova 1992A", 1998, MNRAS 299, 267-276

(13) • **M.Kissler-Patig**, D.A.Forbes, D.Minniti: "Constraints on the Merger Models of Elliptical Galaxies from their Globular Cluster Systems", 1998, MNRAS 298, 1123-1132

(12) • **M.Kissler-Patig**, J.P.Brodie, L.L.Schroder, D.A.Forbes, C.J.Grillmair, J.P.Huchra: "Keck Spectroscopy of Globular Clusters around NGC 1399", 1998, AJ 115, 105-120

(11) • D.Minniti, **M.Kissler-Patig**, P.Goudfrooij, G.Meylan: "Radial Velocities of Globular Clus-

ters in the Giant Elliptical Galaxy NGC 1399", 1998, AJ 115, 121-129

## 1997

(10) • M.Hilker, D.J.Bomans, L.Infante, **M.Kissler-Patig**: "NGC 1427A – a LMC type Galaxy in the Fornax Cluster", 1997, A&A 327, 562-568

(9) • **M.Kissler-Patig**, T.Richtler, J.Storm, M.Della Valle: "Halo and Bulge/Disk Globular Clusters in the S0 galaxy NGC 1380", 1997, A&A 327, 503-512

(8) • **M.Kissler-Patig**: "The Dichotomy of Early-type Galaxies from their Globular Cluster Systems", 1997, A&A 319, 83-91

(7) • **M.Kissler-Patig**, S.Kohle, M.Hilker, T.Richtler, L.Infante, H.Quintana: "Globular Cluster Systems of Early-type Galaxies in Fornax", 1997, A&A 319, 470-480

## 1996

(6) • M.Hilker, **M.Kissler-Patig**: "The Globular Cluster System of an "Old" Merger: NGC 5018", 1996 A&A 314, 357-367

(5) • S.Kohle, **M.Kissler-Patig**, M.Hilker, T.Richtler, L.Infante, H.Quintana: "The Distance of the Fornax Cluster based on Globular Cluster Luminosity Functions", 1996, A&A 309, L39-L42

(4) • D.Minniti, G.Meylan, **M.Kissler-Patig**: "Globular Cluster Halos around Dwarf Elliptical Galaxies", 1996, A&A 312, 49-54

(3) • **M.Kissler-Patig**, T.Richtler, M.Hilker: "The Elliptical Globular Cluster System of NGC 720", 1996, A&A 308, 704-712

## 1994

(2) • **M.Kissler**, T.Richtler, E.V.Held, E.K.Grebel, S.J.Wagner, M.Cappaccioli: "The Globular Cluster System of NGC 4636", 1994, A&A 287, 463-469

## 1992

(1) • T.Richtler, E.K.Grebel, H.Domgörgen, M.Hilker, **M.Kissler**: "The Globular Cluster System of NGC 1404", 1992, A&A 264, 25-31

## 2 Reviews, Books, Magazines

(m4) • **M.Kissler-Patig**, M.M.Roth, J.R.Walsh editors: "Science Perspectives for 3D Spectroscopy", 2007, 'ESO Astrophysics Symposia', Springer

(m3) • **M.Kissler-Patig** editor: "Extragalactic Globular Cluster Systems", proceedings of the ESO workshop, 2003, 'ESO Astrophysics Symposia', Springer

(m2) • **M.Kissler-Patig**: "Extragalactic Globular Cluster Systems: A new Perspective on Galaxy Formation and Evolution", 2000, Reviews in Modern Astronomy, Vol. 13, ed. R.E.Schielicke, 13-44

(m1) • **M.Kissler-Patig**: "Kugelsternhaufensysteme", 2000, Sterne und Weltraum 39, 234-240

## 3 Conference Proceedings

Author of  $> 110$  conference proceedings / non-refereed publications, of which  $\sim 50$  appeared in the last five years.

These include 12 SPIE papers on astronomical instrumentation.