

CONTENTS

Spiral Galaxies

K.C. Freeman: The Evolutionary History of the Milky Way	3
R. Kennicutt: Assembling Spiral Galaxies	11
M. Rich: The Stellar Population of the Galactic Bulge	19
M. Samland, G. Hensler: Chemo-Dynamical Models and the Star Formation History of Galaxies	23
R. F. Peletier, M. Balcells: The Ages of Galaxy Bulges and Disks from Optical and Near Infrared Colours	29

Elliptical Galaxies

R.L. Davies: The Star Formation History of Elliptical Galaxies	37
T. P. de Zeeuw, C.M. Carollo: Dynamical Constraints on the Formation of Elliptical Galaxies	47
C. Scorz, R. Bender: Disky Ellipticals in the Hubble Sequence	55
G. Bruzual: Population Synthesis Models	61
G. Worthey: Finding Ages for Old Stellar Populations	71
C. Chiosi: Elliptical Galaxies : The Metallicity Dilemma	75
E. Cappellaro: The Rate of Supernovae in Normal Galaxies	81

Small Stellar Systems and Galaxy Cores

W.C. Harris: The Formation of Globular Clusters : how , when and where?	87
S. McGaugh: Dwarf and Low Surface Brightness Galaxies	97
J. Kormendy, Y. Byun, E. A. Ajhar, T. R. Lauer, A. Dressler, S. M. Faber, C. Grillmair, K. Gebhardt, D. Richstone, S. Tremaine: An HST Surevy of Cores of Early-Type Galaxies	105
R. van der Marel: Recent Progress in the Search for Black Holes in Galactic Nuclei	117

The Interstellar Medium

G. Fabbiano: The X-ray emission of E and S0 Galaxies	123
A. Renzini: Hot Gas Flows in Elliptical Galaxies	131
N. Arimoto: The Iron Abundance Discrepancy in Ellipticals after ASCA	139
R. Sancisi: The Cold Interstellar Medium	143
L. Tacconi: Detecting CO at High Redshift	151

Dark Matter Halos around Galaxies

R.P. Saglia: Dark Matter Halos	157
O.E. Gerhard, J. Silk: Baryonic Dark Halos : a model with MACHOS and cold gas globules	167
B. Fuchs, V. Friese, H. Reffert, R. Wielen: Interaction of Disks and Dark Halos of Dwarf Spirals	171
A. Burkert: The Structure of Dark Matter Halos in Dwarf Galaxies	175

Mergers in the Local Universe

R. Bender: Mergers and the Formation of Massive Ellipticals	181
J. Barnes: The Dynamical Effects of Mergers	191
R.M. Sharples: The Butcher-Oemler Effect in Nearby Clusters	199
B. Moore, N. Katz and G. Lake: Dynamical Effects on Galaxies in Clusters	203

High Redshift Galaxies

S. Lilly, O. LeFevre, F. Hammer, D. Crampton, D.J. Schade, J.D. Hudon, and L. Tresse: The Evolution of Field Galaxies	209
D. Koo: A Glimpse of Field Galaxies at Redshifts $z \sim 1$ using HST and the Keck Telescope	217
S. Driver, R.A. Windhorst, and R.E. Griffiths: Caught in the Act : the identification of the galaxies responsible for the faint blue excess	221

N. Metcalfe, T. Shanks, R. Fong, J. Gardner and N. Roche: Faint Galaxy Number Counts	225
G. Illingworth: Characterising distant blue galaxies with HST images and Keck spectra	229
M. Franx and P.G. van Dokkum: Measuring the Evolution of the M/L ratio from the Fundamental Plane in Cl 0024+16 at $z = 0.39$	233
H.W. Rix, M.M. Colless, P. Guhathakurta: The Linewidth- Luminosity Relation for Blue Galaxies at a redshift of ~ 0.25	241
 Theory of Galaxy Formation	
C. S. Frenk, C. M. Baugh and S. M. Cole: Galaxy Formation and Evolution: What to Expect from Hierarchical Clustering Models	247
J. Navarro: The Structure of Cold Dark Matter Halos	255
M. Steinmetz: Mergers and Formation of Disk Galaxies in Hierarchically Clustering Universes	259
G. Kauffmann: The Ages of Elliptical Galaxies in a Merger Model	265
 Galaxies in Formation	
S. G. Djorgovski: The Quest for Protogalaxies	277
H. Hippelein: The Search for Primeval Galaxies with CADIS	287
S. J. Warren and P. Moller: Results from Searches for High-Redshift Galaxies around Damped $Ly - \alpha$ Systems	291
M. Dickinson, C.C. Steidel: Galaxy Properties at High z : Metal Line Absorption Systems	295
D. Tytler: The Ecology of Quasar Absorption Systems	299
M. Rees: What Can Quasars Tell Us about Galactic Evolution?	303
S.M. Faber: Conference Summary	313
Conference Photographs	319

POSTER PAPERS

<i>P.N. Appleton et al.:</i>		
Mapping Stellar Evolution in the Wake of Density Waves in Ring Galaxies		337
<i>I. Arétxaga, B.J. Boyle, R.J. Terlevich:</i>		
The host Galaxies of $z \approx 2$ Radio-Quiet QSOs		338
<i>E. Athanassoula et al.:</i>		
A Possible Evolutionary Scenario for NGC 7217		339
<i>B. Barbuy, J.A. De Freitas Pacheco, T. Idiart:</i>		
Estimation of MG/FE Ratio in Early-Type Galaxies		340
<i>A.J. Barger et al.:</i>		
Starburst Cycle in Distant Clusters		341
<i>T. Beckert et al.:</i>		
The Radio Spectrum of SGR A		342
<i>P. Belloni, H.J. Röser:</i>		
The Galaxy Population of two Distant Galaxy Clusters: 0016+16 ($z = 0.54$) and 0939+47 ($z = 0.41$)		343
<i>N. Bergvall et al.:</i>		
Star Formation in a Magnitude Limited Sample of Interacting Galaxies		344
<i>D.J. Bomans, Y.-H. Chu and U. Hopp:</i>		
Supergiant Shells and Hot Gas in NGC 4449		345
<i>E. Brinks et al.:</i>		
HI in HII-Galaxies and their Companions		346
<i>P. Bristow and S. Phillips:</i>		
Isophotal Effects in Faint Galaxy Samples		347
<i>N. Caon, F. Macchetto, M. Pastoriza:</i>		
A Survey of the Interstellar Medium in Ellipticals: the Ionized Gas		348
<i>N. Cardiel, J. Gorgas, A. Aragon-Salamanca:</i>		
Spectroscopic Evidences for Star Formation in Cooling Flow Galaxies		349
<i>C. Carignan:</i>		
The Total Mass of DDO 154		350
<i>G. Carraro, Yuen K. Ng:</i>		
Age-Metallicity Relation: Comparison of Open Clusters' Data with Stellar Populations		351
<i>M. Chiba, B.B. Nath:</i>		
Photoionization Effects on Galaxy Formation		352
<i>L. Ciotti, M. Stiavelli, A. Braccesi:</i>		
Recovering the Intrinsic Metallicity Distribution of Elliptical Galaxies		353
<i>D.L. Clements et al.:</i>		
How Many ULIRGs are Mergers?		354
<i>F. Cuisinier, Th. Lejeune, R. Buser:</i>		
Towards a Complete Library of Stellar Spectra for Evolutionary Synthesis		355
<i>W.J.G. De Blok, J.M. Van Der Hulst, S.S. McGaugh:</i>		
Properties of low Surface Brightness Galaxies		356

<i>R.S. De Jong:</i>	
Colour (\approx Age?) Gradients in Spiral Galaxies	357
<i>R.S. De Jong, R.L. Davies:</i>	
The Shapes and Ages of Elliptical Galaxies	358
<i>W. Dehnen:</i>	
Are Galaxy Models with $f=f(E, L_z)$ stable?	359
<i>H. Dejonghe et. al.:</i>	
On the Dynamics of very Flattened Ellipticals	360
<i>S. Delisle, E. Hardy:</i>	
Spectral Synthesis of the Integrated Spectrum of the Galactic Bulge	361
<i>R.-J. Dettmar, A. Ferrara:</i>	
NIR Imaging of the Box/Peanut Bulge in NGC 4302	362
<i>A. Di Bartolomeo, G. Barbaro, M. Perinotto:</i>	
Effects of Dust Extinction in Galactic Disks	363
<i>S. Döbereiner, J. Heidt, S.J. Wagner:</i>	
Emission Line Regions in M86	364
<i>H. Domgörgen, M. Dahlem, R.-J. Dettmar:</i>	
NGC 2188: A Case Study for Disk-Halo Interaction	365
<i>M. D'Onofrio et. al.:</i>	
The $D_n - \sigma$ and Fundamental Plane Relations as Distance Indicators of Early Type Galaxies in the Virgo and Fornax Clusters	366
<i>B. Dorman, R.W. O'Connell:</i>	
The Ultraviolet Spectra of Old Stellar Populations	367
<i>M. Dumke et al.:</i>	
Polarized Radio Emission of Edge-on Galaxies: Observational Results and Implications	368
<i>W.J. Duschl et al.:</i>	
Mapping the Galactic Center	369
<i>D. Elbaz, L. Vigroux:</i>	
Time Scales for Galaxy Formation and Intra-Cluster Medium Enrichment	370
<i>E. Emsellem:</i>	
Secular Evolution of the Sombrero Galaxy	371
<i>S. Feltzing, B. Gustafsson:</i>	
The Metal-Rich Disk Population	372
<i>M. Fioc:</i>	
UV to NIR Galaxy Evolution and Galaxy Counts	373
<i>D. Fisher, M. Franx, G. Illingworth:</i>	
S0 Galaxy Line Strengths and Gradients	374
<i>D. Forbes et al.:</i>	
Keck Spectroscopy of Moderate Redshift Galaxies Imaged by HST	375
<i>U. Fritze-v. Alvesleben:</i>	
Star and Globular Cluster Formation in Mergers	376
<i>B. Fuchs, R. Wielen, S. von Linden:</i>	
Dynamical Stability and Dynamical Evolution of the Disks of Sc Galaxies	377

<i>Y. Funato , J. Makino:</i>		
Evolution of Galaxies Through Their Interactions		378
<i>R. Fux, D. Friedli:</i>		
3D N-Body Simulation of the Milky Way with Gas		379
<i>J. Gallego et al.:</i>		
Study of a Complete Sample of H α Emission-Line Galaxies from the UCM Survey		380
<i>B.K. Gibson, F. Matteucci:</i>		
The Enrichment of the Intracluster Medium		381
<i>J. Gorgas et al.:</i>		
Stellar Populations in Dwarf Elliptical Galaxies		382
<i>P. Goudfrooij:</i>		
Dust VS. Color Gradients in Elliptical Galaxies		383
<i>C. Gronwall:</i>		
Constraints on Galaxy Evolution from Faint Redshift Surveys, Keck, and HST		384
<i>P. Guhathakurta et al.:</i>		
Spatially-Resolved Internal Kinematics of $< z > \approx 0.3$ Field Galaxies: Evidence for Rotation		385
<i>M. V. Gyulzadian:</i>		
Spectroscopy of Three SBS Galaxies		386
<i>C. Halliday et al. :</i>		
Line Strength Gradients in Low Luminosity Galaxies		387
<i>G.K.T. Hau, M. Balcells, D. Carter:</i>		
Peculiar Kinematics in the Core of NGC 474		388
<i>J. Heidt et al.:</i>		
High-Resolution Imaging of BL LAC Host Galaxies		389
<i>O.M. Heinrich:</i>		
Physical Properties of Subcritical Accretion Disks		390
<i>G. L. Hoffmann:</i>		
Statistics of HI Extents of Irregular Galaxies		391
<i>U. Hopp et al.:</i>		
A Supernova Remnant in the Dwarf HO IX		392
<i>W.K. Huchtmeier, L.J. Sage, C. Henkel:</i>		
The Cold Gas Content of Elliptical Galaxies		393
<i>J.D. Hudon, S.J. Lilly:</i>		
The Clustering of Faint Galaxies: and the Evolution of $\xi(R)$		394
<i>C. Liu et al.:</i>		
Field Galaxy Evolution Studies with an Optical Multicolor Deep-Sky Survey		395
<i>P. Jablonka, N. Arimoto, P. Martin:</i>		
The Overabundance of Magnesium over Iron in Bulges of Spiral Galaxies		396
<i>R.A. Jansen et al.:</i>		
Spectroscopic and Photometric Nearby Field Galaxy Survey		397

<i>N. Junkes, G. Hensler:</i>	
NGC 4569: X-Ray Observation of a Spiral Galaxy with Nuclear Starburst Activity	398
<i>A. Just et al.:</i>	
The Signature of Galactic Disk Evolution in Vertical Colour Profiles of Edge-On Galaxies	399
<i>B. V. Komberg:</i>	
Absorption Features of “ L_α Damped” Type in Spectra of Very Distant QSO as an Indicator of Young Clusters of Galaxies	400
<i>J. Köppen, Ch. Theis and G. Hensler:</i>	
Self-Regulated Star-Formation in Galaxies	401
<i>M. W. Kümmel, S.J. Wagner:</i>	
Identifications of Faint IRAS Sources	402
<i>B. Lanzoni, L. Ciotti, A. Renzini:</i>	
The Tilt of the Fundamental Plane of Elliptical Galaxies: Dynamical and Structural Effects	403
<i>Y.-W. Lee, J.-H. Park:</i>	
Evidence for a Sizable Age Spread among Galaxies from the UV Upturn Phenomenon in Early-Type Systems	404
<i>S. von Linden et al.:</i>	
Simulation of Mass Transport in Disk Galaxies	405
<i>C.T. Liu et al.:</i>	
Field Galaxy Evolution Studies with an Optical Multicolor Deep Sky Survey	406
<i>D. Lutz, F. Prada:</i>	
Near-Infrared Spectroscopy of NGC 253: Starburst and Surroundings	407
<i>A.P. Mahtessian et al.:</i>	
A Linkup Between Seyfert’s and their Surroundings	408
<i>C. Maraston:</i>	
A Modular Tool for the Evolutionary Synthesis of Stellar Populations	409
<i>I. Marquez:</i>	
Environmental Effects on the Properties of Spiral Galaxies: Isolated Pairs of Spirals	410
<i>A. Mathieu, H. Dejonghe, X. Hui:</i>	
Probing the Halo of Centaurus A: A Merger Dynamical Model for the PN Population	411
<i>K. Matsushita, K. Makishima:</i>	
X-Ray Observations of Elliptical Galaxies by ASCA Satellite	412
<i>M. Matthias, O. Gerhard:</i>	
Anisotropic Distribution Functions for the Elliptical Galaxy NGC 1600	413
<i>L. Maxfield et al.:</i>	
Optical and IR Properties of Radio Galaxies as a Function of their Power	414
<i>Y.D. Mayya, T.N. Rengarajan:</i>	
Spatial Distribution of Far Infrared and Radio Continuum Emission in Spiral Galaxies	415

<i>C.M. McCain, K.C. Freeman, P.J. Quinn:</i>	
ARP 142: Another Interacting Galaxy with Very Large Internal Motions	416
<i>M.L. McCall, M.M. Derobertis:</i>	
Searching the Continuum for Primeval Galaxies	417
<i>D.E. McLaughlin, R.E. Pudritz:</i>	
A Model for the Globular Cluster Luminosity Function	418
<i>D. Mehlert et al.:</i>	
Properties of E and SO Galaxies in the Coma Cluster	419
<i>N.I. Merkulova, L.P. Metik:</i>	
Flare Activity in the NGC 1275 Nucleus	420
<i>G.R. Meurer:</i>	
The Anatomy of Starbursts in the Ultraviolet	421
<i>C. Möllenhoff, M. Matthias, O.E. Gerhard:</i>	
The Central Bar in M94	422
<i>Morshidi, R.M. Smith, J.I. Davies:</i>	
An Automated Search for Low Surface Brightness	
Dwarf Elliptical Galaxies	423
<i>S. Niklas et al.:</i>	
Results of a Radio Continuum Survey of Spiral Galaxies at 10.55 GHz	424
<i>M. Noguchi:</i>	
Barred Galaxies: Intrinsic or Extrinsic?	426
<i>C.A. Norman et al.:</i>	
Bar Dissolution and Bulge Formation	427
<i>L. Origlia, A.F.M. Moorwood, E. Oliva:</i>	
Old Starburst in Active Nuclei: The Connection between Starburst and Seyfert Activity	428
<i>K. Otmianowska-Mazur et al.:</i>	
The Influence of Spiral Arms and Bar on the Large-Scale Galactic Magnetic Field Evolution	429
<i>S. Pellegrini, L. Ciotti:</i>	
The Energetics of Flat and Rotating Early-Type Galaxies and their X-Ray Luminosity	430
<i>S. Phillipps, S.P. Driver:</i>	
Number Counts and Evolving Dwarfs	431
<i>H. Plana, J. Boulesteix:</i>	
Multiple Gaseous Disks in NGC 1052	432
<i>B.M. Poggianti, G. Barbaro:</i>	
Galaxy Evolution in Distant Clusters	433
<i>C.C. Popescu, U. Hopp, H. Elsässer:</i>	
Search for Emission Line Galaxies Towards nearby Voids	434
<i>S.A. Pustilnik et al.:</i>	
The Large Range of Dark Matter content in Dwarf Galaxies and its Implications	435
<i>K.D. Rakos, T.I. Maindl, J.M. Schombert:</i>	
Galaxies and Photometric Signature of Starburst	436

<i>D. Reitzel et al.:</i>	
Isolating Red Giants in M31's outer Spheroid: The Metallicity Gradient	437
<i>T. Richtler et al.:</i>	
Globular Cluster Systems in Fornax	438
<i>M.G. Richer, M.L. McCall, N. Arimoto:</i>	
Oxygen Abundances in Diffuse Ellipticals and the Metallicity- Luminosity Relation for Dwarf Galaxies	439
<i>B.J. Sams et al.:</i>	
Near-IR Imaging Spectroscopy of CD Galaxy NGC 1275	440
<i>R.P. Schiavon, B. Barbuy:</i>	
The Near-Infrared FeH Lines as Indicators of Surface Gravity of M stars	441
<i>T. Schmutzler, D. Breitschwerdt:</i>	
Evolution and State of the Local ISM	442
<i>R.E. Schulte-Ladbeck, U. Hopp:</i>	
Stellar Populations of Dwarf Irregular Galaxies	443
<i>N.J. Shaviv, G. Shaviv:</i>	
The Galaxy Mass Distribution from Mergers in a Collapsing Spherical Cluster	444
<i>Y. Shioya, M. Chiba:</i>	
Chemical Evolution of Star-Forming Viscous Disks	445
<i>D. Sprayberry:</i>	
Low Surface Brightness Galaxies and the Field Galaxy Luminosity Function	446
<i>E.A. Stengler Larrea:</i>	
The Redshift Evolution of CIV in Galaxy Halos	447
<i>C. Surace, J. Hecquet, M. Auriere:</i>	
Spectroscopic Study of NGC 6119 - NGC 6120 System	448
<i>P. Surma:</i>	
A BVRIJKH α Survey of 355 Nearby Galaxies	449
<i>R.A. Swaters, R. Sancisi, J.M. van der Hulst:</i>	
The HI Halo of NGC 891	450
<i>C. Theis:</i>	
Formation of Anisotropy in Galaxies	451
<i>I. Thiering, M. Dahlem:</i>	
Mapping the Total Gravitating Mass in Three Groups of Galaxies	452
<i>H. Tiersch, H. Oleak, D. Stoll, A.D. Schwope et al.:</i>	
The X-Ray Emitting Galaxy Group SHKH 360	453
<i>E. Thommes, K. Meisenheimer:</i>	
Number Density Predictions for Primeval Galaxies	454
<i>S.C. Trager, S.M. Faber, A. Dressler:</i>	
The Galaxy Populations of Clusters at High Redshifts: A "Hubble Atlas"	455
<i>M. Urbanik, M. Soida, R. Beck:</i>	
Magnetic Fields and the Interstellar Medium in Spiral Arms	456

<i>D. Valls-Gabaud, B. Roukema:</i>	
On the Growth Rate of the Correlation Function of Faint Galaxies	457
<i>F.C. van den Bosch, T. de Zeeuw:</i>	
Nuclear Disks Embedded in Elliptical Galaxies	458
<i>P. van Dokkum, M. Franz:</i>	
The Fundamental Plane at $z = 0.4$	459
<i>A. Vazdekis et al.:</i>	
Spectrophotometric Population Synthesis of Early Type Galaxies	460
<i>J. Vennik et al.:</i>	
B and R Surface Photometry of Faint Galaxies in the Area of Three Cosmic Voids	461
<i>M.A.W. Verheijen:</i>	
An HI Study of Ursa Major Spirals	462
<i>S.G. Vine, R.C. Thomson:</i>	
The Dynamical Evolution of Centaurus A	463
<i>H. van Woerden et al.:</i>	
High-Velocity Clouds and Galactic Evolution	464
<i>S.J. Wagner, M.W. Kümmel:</i>	
The K-Band Luminosity Function	465
<i>N. Wassmer, R. Bien, R. Wielen:</i>	
Dynamics of Massive Black Holes in the Center of Interacting Galaxies	466
<i>M.C. Wiedner et al.:</i>	
Introduction to the JCMT-CSO Interferometer	467
<i>G.M. Williger et al.:</i>	
Molecular Hydrogen at $z = 2.8108$	468
<i>G. Wirth, P. Belloni:</i>	
Morphology of E+A Galaxies in CL0016+16 ($z = 0.54$)	469
<i>D. Woods, G.G. Fahlman, H.B. Richer:</i>	
Measuring the Angular Correlation Function for Faint Galaxies at High Galactic Latitudes	470
<i>C. Xu:</i>	
Star Formation Histories of Spiral Galaxies from a Multi-Wavelength Study	471
<i>T. Yamada, N. Arimoto:</i>	
Observable Properties of Passively-Evolving Galaxies at High Redshift	472
<i>B. Ziegler, R. Bender:</i>	
The Age of Elliptical Galaxies in Clusters	473
<i>R. Windhorst, S.M. Pascarelle, W.C. Keel:</i>	
Deep HST Imaging of a Galaxy Cluster at $z = 2.4$	474
Subject Index	477

