

## CURRICULUM VITAE

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### Work/Educational Background

06/2011–present	University of Cambridge, IoA	Professor in Astrophysics
10/2006–05/2011	University of Cambridge, IoA	Reader (Associate Professor) in Astrophysics
06/2006–10/2007	University of Victoria (1yr deferred for parental leave)	Adjunct professor, Canadian Space Agency Fellow
06/2001–06/2005	California Institute of Technology	Senior Postdoctoral Fellow
05/1999–06/2001	Carnegie Observatories	Magellan Fellow
10/1996–05/1999	University of British Columbia	PhD, supervisors: Gordon Walker, Simon Morris “The nature of active galaxies”
09/1995–10/1996	University of British Columbia	MSc, supervisor: Gordon Walker “A precisely aligned CCD mosaic for astronomy”
09/1990–05/1995	University of British Columbia	BSc (Honours Physics/Math)
09/1988–05/1990	Van. Academy of Music/ Simon Fraser University	Diploma (violin performance, minor: philosophy)

### Grants and Awards (totaling over US\$2mil)

2009	Col	Cambridge, IoA	Observational Rolling Grant “Obscured star formation at high- $z$ ”
2008	PI		Spitzer research grant, cycle 5 GO, “IRS spectroscopy of SFRGs”
2008			Fellow of Sidney Sussex College, University of Cambridge
2006	Col		Chandra research grant, cycle 5 GO, “deep SSA22 in Xrays”
2006	PI		NSERC- Discovery grant (U.Victoria) 3 years
2005			Canadian Space Agency Fellowship (to UVic), (3 years)
2005	PI		Spitzer research grant, cycle 2 GO, “IRS spectroscopy of OFRGs”
2005	Col		Spitzer research grant, cycle 2 GO, “IRS spectroscopy of SMGs”
2005	Col		Spitzer research grant, cycle 2 GO, “The deepest radio field”
2004	PI		HST research grant, cycle 13 GO, “Morphology/Density at $z = 3$ ”
2004	Col		HST research grant, cycle 13 GO, “Metallicities in the M31 Halo”
2004	Col		GALEX research grant, cycle 1 GO, “Evolution of Ly $\alpha$ blobs”
2004	Col		Spitzer research grant, cycle 1 GO, “Mid-IR properties of SMGs”
2003	PI		HST research grant, cycle 12 GO, “Near-IR morphologies of SMGs”
2001	PI		HST research grant, cycle 10 GO, “UV morphologies of SMGs”
2001			Jansky Fellowship, 3 years (declined)
2000			AAS small research grant
1995–99			UBC Graduate Fellowship
1988–91			Vancouver Academy of Music Tuition Scholarship
1991			National Youth Orchestra of Canada Scholarship

## Research and Technical Interests

**Astronomy** – evolution of sub-mm and infrared galaxies; cosmology; CMB polarization; high- $z$  star formation, the merger history, and fossil records in the local group;

**Instrumentation** – TES-bolometer arrays, radio interferometers (ALMA/E-VLA/E-MERLIN); submm spectrographs; large mosaic cameras; adaptive optics and IR instruments; liquid mirror telescopes.

## Teaching Experience

### **University of Cambridge, Institute of Astronomy**

- 2007 – 2010; Stellar Structure and Evolution (Part-II astrophysics)
- 2010 –; Galaxies and Galaxy Evolution (Part-III astrophysics)

### **University of Cambridge, Sidney Sussex College**

- 2008 – Applied Mathematics, Maths Tripos, director of studies.

Supervisor for Math Tripos courses:

- Ib-Quantum Mechanics;
- Ib-Statistics;
- Ia-Probability;
- Ia-Differential Equations

### **University of Victoria**

- 2006 – The evolution of submillimetre galaxies (Graduate lecture course)

**University of British Columbia** - Astronomy Dept., Sept. 1995 - April 1998  
faculty supervisors: Douglas Scott, Jaymie Mathews, Gordon Walker, Paul Hickson

- Outreach: coordinator for UBC public observing on rooftop telescope
- Teaching Assistant, Astr110 – Introduction to astronomy
- Teaching Assistant, Astr115 – Elementary astronomy
- Teaching Assistant, Astr462 – Astronomical observing
- Replacement Lecturer, Astr115 – Elementary astronomy
- Supplement Lecturer, Astr460 – Astronomical instrumentation

## **PhD Students Supervised**

- Susannah Alaghband-Zadeh, current 3rd yr PhD student, IoA Cambridge

### **Past PhD Students**

- Caitlin Casey, graduated (2010) PhD; Gates scholar, IoA Cambridge  
– currently Hubble Fellow, IfA Hawaii (also offered Jansky fellowship)
- Michelle Collins, graduating (2011) PhD, IoA Cambridge  
– currently MPiA Fellow, Heidelberg, Germany (also offered Menzel fellowship, Harvard; Super Science Fellow, Australia)
- Matt Bothwell, graduating (2011) PhD, IoA Cambridge  
– currently postdoc at University of Arizona, Tucson (also offered SMA fellowship, Harvard; NRAO fellowship)
- David Trethewey, graduated (2011) MSc, IoA Cambridge
- Kate Husband, graduated (2011) MSc/PartIII student, Physics Cambridge  
– currently PhD student (Bristol), co-supervised by S.Chapman
- Allison Strom, graduated (2011) MPhil student and Gates scholar (2010), IoA Cambridge  
– currently PhD student, Caltech.

### **Other Students Supervised**

- Anna Sajina (1999), Summer Student, University of British Columbia (UBC), Canada
- Cameron Hummel (2002), 4th year honors project, Harvey Mudd, CA
- Thomas Greve (2003-2004), PhD Student, Edinburgh, UK
- Jonothan Bird (2003-2004), Caltech 4th year honors and postgrad research, Caltech, CA
- Christopher Lindner, Undergrad honors project, San Diego State U., CA
- Patrik Jonson, PhD Student, UCSC, CA (20% funded through Chapman's grants);
- Konstantin Fedotov, Coop Student, UVic, BC (Chapman NSERC grant funded);

## **Committees**

2010–	Cambridge, appointments committee
2010	PhD External Examiner, Asa Bluck, Nottingham, UK
2009–	Cambridge, Part-II astronomy, examination committee
2009–	Cambridge, astronomy teaching committee
2009	PhD Internal Examiner, Steven Wilkins
2008–2011	INT/WHT time allocation committee
2007	PhD External Examiner, Agostina Renda, Swinburne, Australia
2006–2008	NRAO Users Committee
2006	NRAO "Legacy Projects", SOC
2005–present	WF MOS-Subaru, Galactic archeology; design science team
2006	HST time allocation committee, galaxies panel
2004–present	Scientific Advisory Committee, Caltech/Cornell 25m Submm Telescope
2004–present	Scientific Advisory Committee, Caltech/JPL BLISS/SPICA 3.5m cold aperature, submm spectrograph
2003–present	DEEP2-EGS collaboration, head of 150hr VLA survey; committee member (1 of 8 co-PI's)
Oct, 2004	Large Submillimetre Dishes, Royal Observatory Edinburgh
Dec, 2003	The future of the IRAM Plateau de Bure task force to plan the role of IRAM in the era of ALMA
June, 2003	Gemini new instrumentation, international committee, Aspen CO
2000-2005	JCMT, Gemini and CFHT; Time Allocation Committees- referee
2004–present	Referee for Dutch and UK faculty and postdoc grants
2000–present	Referee for scientific publications in ApJ, AJ, A&A, MNRAS

## Invited Colloquia

UCLA colloquium	Oct 2000
Caltech, tea talk,	Oct 2000, Nov 2002, Dec 2005
Carnegie Observatories colloquium,	Mar 2001
University of Texas, Austin,	May 2001, Mar 2006
Institute for Astronomy, Hawaii,	July 2001, May 2011
Laurence Livermore National Lab	Sept 2001
Caltech, IR colloquium,	Dec 2001
Arizona State University, Tempe	Dec 2001, Feb 2003
NRAO, Socorro	May 2002
Johns Hopkins	May 2002
INAOE, Mexico	June 2002
IRAM, Grenoble, France	Oct 2002
U. C. Santa Barbara,	Nov 2002
U. C. Santa Cruz	Jan 2003, Feb 2004
Stanford	Jan 2003
Carnegie Mellon, Pittsburgh	April 2003
U. Kentucky, Lexington	May 2003
U. Durham	Sept 2003
Observatoire de Strasbourg	Dec 2003, Mar 2005, May 2008
McGill University	Jan 2004, Nov 2011
U. Colorado, Boulder	Feb 2004
U. Toronto	Mar 2004
Yale	Mar 2004
Max Planck Astrophysik	April 2004
U. Victoria	April 2004, April 2005
MIT	Dec 2004
Penn State	Dec 2004
HIA/DAO	Jan 2005
UBC	Jan 2005, Sept 2006, Feb 2012
U. Michigan	Feb 2005
U. Lethbridge	Aug 2005
NRAO, Charlottesville	Oct 2005
UC San Diego	Nov 2005
McMaster U.	Jan 2006
U. Waterloo	Jan 2006
UC Irvine	Feb 2006
Cambridge, IoA	Mar 2006, Oct 2007
Cambridge, DAMTP	Nov 2007
U. Nottingham	April 2008, January 2011
U. Sussex	May 2008, Nov 2011
Imperial College London	May 2008
U. Central Lancashire	May 2008
U. Birmingham	Feb 2009
Oxford	Oct 2008, May 2009
Cambridge, Cavendish	May 2009
Liverpool JMU	June 2009
Marseille, Laboratoire Astrophysique	Jan 2010
Zurich ETH	Oct 2010
Harvard, Theory Group	Oct 2010
U. Manchester	Oct 2010
Leiden	Dec 2010
Dalhousie University	Dec 2010
Munich Joint Astronomy Colloquium	Oct 2011
Saint Mary's University	Jan 2012

**Conference Invited Review Talks** (contributed talks not listed)

Zermatt, Switzerland, Sept 2003	The evolution of submm galaxies
Venice, Italy, Oct 2003	The evolution of submm galaxies
Pasadena, USA, June 2004	Post-Spitzer: Observing high-redshift dusty galaxies
Aspen, CO, July 2004	The star formation properties of submm galaxies
Paris, France, Oct 2004	ALMA and cosmology
Ringberg, Germany, Nov 2004	The panorama of luminous, high- $z$ galaxies
Japan, Tokyo Nov 2004	The evolution of submm galaxies
Moriand, IT, Mar 2005	From UV to FarIR
Aspen, CO, July 2005	AGN and black hole growth in submm galaxies
UC Santa Cruz, Aug 2005	NNG – A 60th birthday party conference for Blumenthal, Primack & Faber
Charlottesville, Jan 2006	ALMA and z-machines
Prague, CZ, Aug 2006	Evolution of Galaxies across the Hubble Time
Aspen, CO, Feb 2007	Clusters of submm galaxies
Caefelu, Sicily, Sept 2008	Extreme starbursts at high redshift
Assen, the Netherlands, June 2010	A New Golden Age for Radio Astronomy: “The evolution of microjansky radio sources”
Manchester, UK, Sept 2010	A new era in radio astronomy
Bonn, Germany, Sept 2010	High redshift galaxies with ALMA
Aspen, CO, Apr 2011	Evolution of submm galaxies

**Observing Experience on major telescopes**

From 1996 to the present, I have observed extensively on the following facilities (in order of initial use):

DAO 1.2m & 1.8m (Victoria, Canada); CFHT (Hawaii); JCMT (Hawaii); Caltech Submm Observatory (Hawaii); UKIRT (Hawaii); Nobeyama 50m millimeter telescope (Japan); Dupont 100" (Las Campanas, Chile); Magellan 6.5m (Las Campanas, Chile); Gemini (Hawaii); Palomar 200" and 60" (California); Kitt Peak 4m (Arizona); Owens Valley Radio Observatory (California); VLA (New Mexico); BIMA (California); Keck 10m (Hawaii); HST (Space); XMM (Space); Subaru 8m (Hawaii); IRAM - Plateau de Bure (France); VLT (Chile); Chandra (Space); Spitzer (Space); Herschel (Space).

**Instrumentation Research Experience**

**POLARBeAR** - July 2011 - Present.

- Construction of FTS spectrograph for characterization of antenna-coupled TES bolometer arrays.
- Working on design for channelized TES bolometer for low resolution spectroscopy.
- Commissioning of PB-1 in Chile.

**Chicago** - Submillimeter Instrumentation Group, Mar 2010 - Present,

- Co-I of SPT-SMG team to bring the *Zspec* submillimeter spectrograph to the APEX telescope, which was dedicated to followup of SPT-SMGs.

**JPL/Caltech** - Submillimeter Instrumentation Group, Sept 2003 - Present,

- working on concept design for a wide bandwidth submillimeter spectrograph (BLISS) for the SPICA 3.5m space telescope (to be launched in 2012).
- working with commissioning team of *Zspec* submillimeter spectrograph to move the instrument to IRAM-30m telescope, and as a test design for BLISS.
- SHARC-II 350 $\mu$ m camera, commissioning early data analysis

**Carnegie Observatories** - IR Astronomy Instrumentation Group, May 1999 - May 2001,

- design and commissioning of CIRSI-blue-box *H*-band survey camera
- worked with mechanics, electronics and cryogenics for CIRSI-blue-box, a 4×1k×1k pixel nearIR mosaic camera
- worked on design for a multi-slit IR spectrograph for Magellan.

**UBC** - Astronomy Instrumentation Group, Nov. 1994 - Mar. 1999,  
supervisors: Gordon Walker, Paul Hickson

- developed a novel technique for constructing flat, precisely aligned CCD mosaics (S.C.Chapman and G.S.Burley, UBC ILO invention disclosure (1995).)
- designed and built a mosaic CCD prototype camera to minimize errors associated with driftscanning on a zenith pointing telescope at high latitudes (6m liquid mercury mirror telescope): including cryogenics, mounting schemes, circuitry, controller modifications
- extensive photo-lithography experience, including lab and design work
- testing the mosaic prototype on the DAO 1.8m telescope in Victoria, BC
- involved with commissioning of the CFHT adaptive optics IFU spectrograph (OASIS) and the UKIRT infrared IFU spectrograph, including instrument mounting and throughput/alignment tests (PI on successful science proposals for both instruments)
- worked with G.Burley's CCD controller for a wavefront sensor based on DSP56002 and R.Johnson's CCD controller based on Am2910A

**CFHT**, Hawaii - supervisors: Doug Simons, Chris Clark, Apr. to Dec., 1993

- characterization, optimization, and modelling of the Rockwell 256x256 IR array detector
- developed phase correction techniques for the Imaging Fourier Transform Spectrometer (BEAR)
- worked with CFHT GenIII controller (SDSU Leach-based) and associated DSP software
- modified existing GUI (Pegasis) software for the IR-array and CCD systems

**BNR** - (Bell Northern Research) supervisor: L.Tarof, Jan. to Sept., 1992

- designed an experiment to measure the ratio of ionization rates for electrons and holes in a newly designed Avalanche Photodiode Detector (APD)
- characterizing low-temperature behaviour of APD and high temperature semiconductor lasers

**UBC** - Fluid Dynamics group (B.Ahlborn), May to Sept, 1994

- designed a computer controlled apparatus to run a thrust generation experiment to simulate fish fast-start swimming
- designed analog circuits including amplifiers, strain gage, and position control circuitry

### **Main project/collaboration involvement**

SHRUGS (2001–)	PI: S. Chapman (Spectroscopic characterization of High- <i>z</i> ULIRGs)
M31-AKAME (2002–)	PI: S. Chapman (Keck-DEIMOS spectroscopic survey in M31)
SouthPoleTelescope-SMG (2009–)	PI: J. Carlstrom/ J. Vieira; Chapman PI of VLT optical/IR followup
AEGIS-DEEP2/3 (2005–)	PI: S. Faber; Chapman PI of VLA radio survey (AEGIS-20)
5MUSES (2005–)	PI: G. Helou; Chapman PI of VLT followup to high- <i>z</i> sources
Herschel SPIRE Legacy Survey (2010–)	PI: A. Cooray; Chapman PI of high- <i>z</i> galaxies subgroup
HerMES (2009–)	PI: S. Oliver
Goods NICMOS Survey (GNS) (2007–)	PI: C. Conselice
SERVS (2008–)	PI: M. Lacy
MIGHTEE (2009–)	PI: M. Jarvis
NGVS (2007–)	PI: L. Ferrarese (Virgo cluster survey)
PAAndAS (2007–)	PI: A. McConnachie (Pan Andromeda Archeology survey)
E-MERLIN LEGACY (2008–)	PI: T. Muxlow

SHADES (2005–)	PI: J. Dunlop
FLS-westerbork (2005–)	PI: S. Chapman (21cm deep radio survey in the Spitzer FLS collaboration)
LESS (2007–)	PI: I. Smail; 870um survey of CDF-S with LABOCA
SCUBA2 CLS (2010–)	PI: J. Dunlop
GAIA-VLT-Legacy survey	PI: G. Gilmore
IoA-KIAA/PKU Galactic Astro (2008–)	PI: N. Walton

## **Citation Analysis**

The following citation analysis is based on data from NASA/ADS retrieved on 10/01/12:

- Refereed papers: 174, Citation count: 8121
- H-index: 55 • First author papers: 31, Citation count: 2194,
- Papers with > 200 citations: 9 *highlighted below* (with further 21 papers having > 100 citations).

- [597 citations] Chapman S.C., Blain A., Smail I., Ivison R., "A Redshift Survey of the Submillimeter Galaxy Population" 2005, ApJ, 622, 772
- [326 citations] Chapman S.C., Blain A., Ivison R., Smail I., "A median redshift of 2.4 for galaxies bright at submillimetre wavelengths," Nature, 2003, 422, 695
- [285 citations] Greve T., Bertoldi F., Smail I., Neri R., Chapman S.C., et al., "An interferometric CO survey of luminous submm galaxies," 2005, MNRAS, 359, 1165
- [280 citations] Lacy, M., Storrie-Lombardi, L. J., Sajina, A., Appleton, P., Armus, L., Chapman, S.C., et al., "Obscured and Unobscured Active Galactic Nuclei in the Spitzer Space Telescope First Look Survey," 2004, ApJS, 154, 166
- [263 citations] Tacconi, L. J.; Neri, R.; Chapman, S. C.; Genzel, R.; et al., "High-Resolution Millimeter Imaging of Submillimeter Galaxies," 2006, ApJ, 640, 228
- [249 citations] Alexander, D. M.; Bauer, F. E.; Chapman, S. C.; Smail, I.; Blain, A. W.; Brandt, W. N.; Ivison, R. J. "The X-Ray Spectral Properties of SCUBA Galaxies", 2005, ApJ, 632, 736
- [238 citations] Tacconi, L. J., Genzel, R., Smail, I., Neri, R., Chapman, S., et al., "Submillimeter Galaxies at z 2: Evidence for Major Mergers & Constraints on Lifetimes, IMF and CO-H2 Conversion Factor" 2008, ApJ, 680, 246
- [220 citations] Coppin, K.; Chapin, E. L.; Mortier, A. M. J.; Scott, S. E.; Borys, C.; Dunlop, J. S.; Halpern, M.; Hughes, D. H.; Pope, A.; Scott, D.; Chapman, S., and 46 coauthors, 'The SCUBA Half-Degree Extragalactic Survey - II. Submillimetre maps, catalogue and number counts,' 2006, MNRAS, 372, 1621
- [212 citations] Davis M., et al., 'The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets', 2007, ApJ, 660, 1

## **Other Contributions**

- S.C.Chapman and G.S.Burley, "Technique for CCD mosaic fabrication," UBC ILO invention disclosure (1995).
- Review in *Nature*, "To a black hole and back again", Nature Physics 6, 556-557 (August 2010)
- Consultant for BBC documentary series, "The Universe", presented by Prof. Brian Cox, (2010-)

## **Full List of Publications - refereed**

- [174] Davidge, T., et al.,
- [173] Bernard, E., et al., 'The Star Formation History and Dust Content in the Far Outer Disc of M31', 2011, 1111.5234
- [172] Hickox R., et al., 'The LABOCA Survey of the Extended Chandra Deep Field South: Clustering of submillimetre galaxies', 2011arXiv1112.0321
- [171] Yang, Y., Decarli R., Dannerbauer H., Walter F., Weiss A., Leipski C., Dey A., Chapman S., 'Constraining Dust and Molecular Gas Properties in Ly Blobs at z ~ 3' 2012, ApJ, 744, 178
- [170] Roseboom I., et al., 'HerMES study of MAMBO sources in the GOODS-N field', 2011, MNRAS, accepted.
- [169] Ibata, R., et al., 'Polytropic model fits to the globular cluster NGC 2419 in Modified Newtonian Dynamics' 2011 ApJ, 743, 43,
- [168] G. A. Shields, D. J. Rosario, V. Junkkarinen, S. C. Chapman, E. W. Bonning, T. Chiba 'LBQS 0103-2753: A Binary Quasar in a Major Merger', 2012 ApJ, 744, 151

- [167] J.Afonso, Bizzocchi, E. Ibar, M. Grossi, C. Simpson, S. Chapman, et al., 'Ultra Steep Spectrum radio sources in the Lockman Hole: SERVS identifications and redshift distribution at the faintest radio fluxes', 2011, ApJ, 743, 122
- [166] Banerji, M., Chapman, S., Smail, Ian, et al., 'Luminous Starbursts in the Redshift Desert at  $z$  1-2: Star Formation Rates, Masses & Evidence for Outflows', 2011, MNRAS, 418, 1071
- [165] Mocz, Philip; Fabian, A. C.; Blundell, Katherine M.; Goodall, P. T.; Chapman, S. C.; Saikia, D. J., 'The inverse-Compton ghost HDF 130 and the giant radio galaxy 6C 0905+3955: matching an analytic model for double radio source evolution', 2011, MNRAS, 417, 1170
- [164] Riechers, ., et al., 'Dynamical Structure of the Molecular Interstellar Medium in an Extremely Bright, Multiply Lensed  $z$  3 Submillimeter Galaxy Discovered with Herschel', ApJ, 733, 12L
- [163] Iбата, R., et al., 'The Globular Cluster NGC 2419: A Crucible for Theories of Gravity' 2011 ApJ, 38, 186
- [162] Williamson, R.; Benson, B. A.; High, F. W.; Vanderlinde, K.; Ade, P. A. R.; Aird, K. A.; Andersson, K.; Armstrong, R.; Ashby, M. L. N.; Bautz, M.; Bazin, G.; Bertin, E.; Bleem, L. E.; Bonamente, M.; Brodwin, M.; Carlstrom, J. E.; Chang, C. L.; Chapman, S. C.; et al., 'An SZ-selected sample of the most massive galaxy clusters in the 2500-square-degree South Pole Telescope survey', 2011, ApJ, 738, 139
- [161] Scott, K., et al., 'Redshift Determination and CO Line Excitation Modeling for the Multiply-Lensed Galaxy HLSW-01' 2011, ApJ, 733, 29
- [159] Collins, M., Chapman, S.C., Iбата, R., Irwin, M., et al., 'The kinematic identification of a thick disc in M31', 2011, MNRAS, 413, 1548
- [158] Conselice, C., et al., 'The Hubble Space Telescope GOODS NICMOS Survey: Overview and the Evolution of Massive Galaxies at  $1.5 < z < 3$ ', MNRAS, 413, 80
- [156] Collins, M. L. M.; Chapman, S. C.; Rich, R. M.; Iбата, R. A.; Irwin, M. J.; Penarrubia, J.; Arimoto, N.; Brooks, A. M.; Lewis, G. F.; McConnachie, A. W.; Venn, K., 'The scatter about the "Universal" dwarf spheroidal mass profile: A kinematic study of the M31 satellites, And V and And VI', 2011, MNRAS, in press, arXiv1103.2121
- [155] Huxor, A. P.; Ferguson, A. M. N.; Tanvir, N. R.; Irwin, M. J.; Mackey, A. D.; Iбата, R. A.; Bridges, T.; Chapman, S. C.; Lewis, G. F., 'Exploring the properties of the M31 halo globular cluster system', 2011, MNRAS, 414, 770
- [155] Biggs, A. D.; Ivison, R. J.; Ibar, E.; Wardlow, J. L.; Dannerbauer, H.; Smail, Ian; Walter, F.; Weiss, A.; Chapman, S. C.; et al., 'The LABOCA survey of the Extended Chandra Deep Field South - radio and mid-infrared counterparts to submillimetre galaxies', 2011, MNRAS, 413, 2314
- [154] Hainline L., et al., 'The stellar mass content of submillimeter-selected galaxies', ApJ, in press, arXiv1006.0238
- [153] Casey, C. M.; Chapman, S. C.; Neri, R.; Bertoldi, F., et al., 'Molecular Gas in Submillimetre-Faint, Star-Forming Ultraluminous Galaxies at  $z > 1$ ', MNRAS, 415, 2723
- [152] Wardlow, J., et al., 'The LABOCA survey of the Extended Chandra Deep Field South: A photometric redshift survey of submillimetre galaxies', 2011, MNRAS, 415, 1479
- [151] Richardson, J. C.; Irwin, M.; McConnachie, A. W.; Martin, N. F.; Dotter, A.; Ferguson, A. M. N.; Iбата, R. A.; Chapman, S.; Lewis, G. F.; Tanvir, N. R.; Rich, R. M., 'PAndAS' progeny: extending the M31 dwarf galaxy cabal', 2011, ApJ, 732, 76
- [150] Ivison, R. J.; Papadopoulos, P. P.; Smail, Ian; Greve, T. R.; Thomson, A. P.; Xilouris, E. M.; Chapman, S. C., 'Tracing the molecular gas in distant submillimetre galaxies via CO(1-0) imaging with the EVLA', 2011 MNRAS, 412, 1913
- [149] Carlberg, R. G.; Richer, Harvey B.; McConnachie, Alan W.; Irwin, Mike; Iбата, Rodrigo A.; Dotter, Aaron L.; Chapman, Scott; Fardal, Mark; Ferguson, A. M. N.; Lewis, G. F.;+3, 'Density Variations in the NW Star Stream of M31', 2011, ApJ, 731, 124
- [148] Cockcroft, Robert; Harris, William E.; Ferguson, Annette M. N.; Huxor, Avon; Iбата, Rodrigo; Irwin, Mike J.; McConnachie, Alan W.; Woodley, Kristin A.; Chapman, Scott C.; Lewis, Geraint F.; Puzia, Thomas H., 'The M33 Globular Cluster System with PAndAS Data: the Last Outer Halo Cluster?', 2011, ApJ, 730, 112
- [147] Boselli, A.; Boissier, S.; Heinis, S.; Cortese, L.; Ilbert, O.; Hughes, T.; Cucciati, O.; Davies, J.; Ferrarese, L.; Giovanelli, R.; Haynes, M. P.; Baes, M.; Balkowski, C.; Brosch, N.; Chapman, S. C.; et al., 'The GALEX Ultraviolet Virgo Cluster Survey (GUViCS). I. The UV luminosity function of the central 12 sq. deg', 2011, A&A, 528, 107

- [146] Casey, C. M.; Chapman, S. C.; Smail, Ian; Alaghband-Zadeh, S.; Bothwell, M. S.; Swinbank, A. M., 'Spectroscopic Characterisation of 250um-Selected Hyper-Luminous Star Forming Galaxies', 2011 MNRAS, 411, 2739
- [145] Chapin, Edward L.; Chapman, Scott C.; Coppin, Kristen E.; Devlin, Mark J.; Dunlop, James S.; et al., 'A joint analysis of BLAST 250–500um and LABOCA 870um observations in the Extended Chandra Deep Field South', 2011 MNRAS, 411, 505
- [144] Chapman, S., Ivison, R., Roseboom, I., Oliver, S., et al., 'Herschel-SPIRE, Far-Infrared Properties of Millimetre-Bright and -Faint Radio Galaxies', 2010, MNRAS, 409, 13L
- [143] Engel, H.; Tacconi, L. J.; Davies, R. I.; Neri, R.; Smail, I.; Chapman, S. C.; et al., 'Most Submillimetre Galaxies are Major Mergers', 2010, ApJ, 724, 233
- [142] Collins, M. L. M.; Chapman, S. C.; Irwin, M. J.; et al., 'A Keck/DEIMOS spectroscopic survey of the faint M31 satellites And IX, And XI, And XII, and And XIII', 2010, MNRAS, 407, 2411
- [141] Coppin, K.; Chapman, S.C.; Smail, I.; Swinbank, M.; et al., 'Detection of molecular gas in a distant submillimetre galaxy at  $z=4.76$  with ATC', 2010, MNRAS, 407, 103
- [140] Greve, T. R.; Weiss, A.; Walter, F.; Smail, I.; Zheng, X. Z.; Knudsen, K. K.; Coppin, K. E. K.; Kovacs, A.; Bell, E. F.; de Breuck, C., Chapman S., et al., 'A LABOCA survey of the Extended Chandra Deep Field South - submillimeter properties of near-IR selected galaxies', 2010, ApJ, 719, 483
- [139] Mackey D., et al., 'Evidence for an accretion origin for the outer halo globular cluster system of M31', 2010, ApJ, 717, L11
- [138] Swinbank, A.M., Smail, Ian, Chapman, S.C., et al., 'A Hubble Space Telescope NICMOS and ACS morphological study of  $z \sim 2$  submillimetre galaxies', 2010, MNRAS, 405, 234
- [137] Bothwell, M., Chapman, S.C., et al., 'High-resolution CO and radio imaging of ULIRGs: extended CO structures and implications for the universal star formation law', 2010, MNRAS, 405, 219
- [136] Serjeant, S.; Negrello, M.; Pearson, C.; Mortier, A.; Austermann, J.; Aretxaga, I.; Clements, D.; Chapman, S. et al., 'The AGN fraction of submm-selected galaxies and contributions to the submm/mm-wave extragalactic background light', 2010, A&A, 514, 10
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### **Conference Presentations**

- Chapman S., 'molecules in galaxies', Oxford, UK, July10, **contributed talk**
- Chapman S., 'Mass and Mystery in the Local Group', Cambridge, England, July05, **contributed talk** 'The metal poor halo of M31'
- Chapman S., 'Island Universes', Terschelling, Holland, July05, **contributed talk** 'The accretion origin to an extended, rotating disk in M31'
- Chapman S., 'merging galaxies', Ringberg Castle, Germany, Nov04, **invited review talk** 'The evolution of submm luminous galaxies'
- Chapman S., 'The Dusty and Molecular Universe A Prelude to HERSCHEL and ALMA', Paris, France, Oct04, **invited review talk** 'ALMA and cosmology'
- Chapman S., 'star formation', Aspen, CO, July04, **invited participant**
- Chapman S., 'From Spitzer to Herschel and Beyond: The Future of Far-IR Space Astrophysics', Pasadena, CA, June04, **invited review talk**
- Chapman S., 'Galaxy Formation, a Herculean endeavor', Banff, Canada, Nov03, 'The redshifts, astrophysics, masses and clustering of submm galaxies', 'Andromeda: the Milky Way's slimmer sister?', **invited talks**
- Chapman S., et al., 'Multi-wavelength through time', Venice, Italy, Oct03, 'A spectroscopic survey of the submm galaxies', **invited review talk**
- Chapman S., et al., 'Dust and gas', Zermatt, Switzerland, Sept03, 'A spectroscopic survey of the submm galaxies', **invited talk**
- Chapman S., 'galaxy clusters', Pasadena, USA, Feb03, 'the SSA22 proto-cluster', contributed talk.
- Chapman S., et al., 'Star formation through history', Granada, Spain, Oct02, 'The redshift distribution of submm galaxies', contributed talk.
- Chapman S., et al., 'Infrared surveys', Edinburgh, UK, Sept02, 'The redshift distribution of submm galaxies', contributed talk.
- Chapman S., et al., 'Millimeter cosmology', Puebla, MX, June02, 'The redshift distribution of submm galaxies', contributed talk.
- Chapman S., et al., 'Galaxy Evolution', Cozumel, MX, Apr02, 'The redshift distribution of submm galaxies', contributed talk.
- Chapman S., et al., 'Dark Matter 2002', Marina Del Rey, CA, Feb02, "The Mass of Dark Matter Halos Associated with Sub-mm Luminous Galaxies", contributed talk.
- Chapman S., et al., 'A new era in cosmology', Durham, UK, Sept01, "Modeling the evolution of sub-mm galaxies", contributed talk.
- Chapman S., et al., AAS, Pasadena, CA, June01, "Modeling the evolution of sub-mm galaxies"

Chapman S., et al., 'Deep Submm Surveys', Amherst MA, June00, "Sub-mm counterparts to Lyman-break galaxies with red  $R - K$ ," *astroph/0009152*

Borys C., Chapman S., et al., 'Deep Submm Surveys', Amherst MA, June00, "The brighter side of sub-mm source counts: a SCUBA scan-map of the Hubble Deep Field," *astroph/0009143*

Scott D., Chapman S., et al., 'Deep Submm Surveys', Amherst MA, June00, "Known and unknown SCUBA sources," *astroph/0010337*

Chapman S., 'Science with ALMA', Washington D.C., Oct.99, "The sub-mm counterparts to Lyman-break galaxies"

Chapman S., 'Photometric Redshifts', Pasadena CA, April99, "High redshift astronomy in the sub-mm", p.309

Walker G., Chapman S., et al. 'Science with Adaptive Optics', Garching, Germany, Sept.98, "Shades of Black: searching for brown dwarfs"

Chapman S., et al. 'Science with Adaptive Optics', Garching, Germany, Sept.98, "The Core Structure of AGN: Perils of Adaptive Optics Artifacts"

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Hickson, P., Borra, E.F., Cabanac, R., Chapman, S.C., et al., 1998, SPIE, 3352, 226 "A 6 meter Liquid Mirror Telescope",

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