

**University of Toronto Archives
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Allan Griffin fonds

B2018-0027

Victoria Fisher, Oct. 2018
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Biographical note

Allan Griffin was a faculty member of the University of Toronto's Department of Physics from 1967-2011, where he taught and conducted research in a number of areas of theoretical condensed matter physics, in particular Bose-Einstein condensation.

Born on February 10, 1939 in Vancouver, British Columbia, he entered the University of British Columbia at the age of 17, obtaining his B.Sc. in Mathematics & Physics in 1960, and an M.Sc. a year later in Theoretical Physics. He then went to Cornell University, where his doctoral studies in theoretical solid state physics were supervised by Vinay Ambegaokar. His thesis, entitled "Theory of the Thermal Conductivity of Gapless Superconductors," resulted in an influential and widely-cited paper published in 1965, the year Griffin received his Ph.D. Following this, Griffin spent two years as a post-doctoral fellow at the University of California, San Diego, where he worked on superconductivity alongside renowned solid-state theorist Kazumi Maki. In 1967, Griffin was hired by the University of Toronto as an Assistant Professor; he held full professor status from 1976 to 2004. Griffin primarily taught at the University of Toronto's Scarborough campus. Throughout his career, he mentored and supported the career development of countless young students and postdocs.

Over the course of his career, Griffin pursued many problems in condensed matter physics, including surface physics, plasmonic excitations in solids, phonons, and d-wave superconductivity. However, a reoccurring and increasingly prominent interest was Bose-Einstein condensation, a phenomenon predicted by Einstein in 1925 and, beginning in 1938, suspected to play a role in the dynamical properties of superfluid Helium-four (^4He). Griffin supervised a number of Ph.D. students whose work touched on this, including his first, T.H. Cheung, who finished his thesis "Excitations in Bose Fluids", in 1971. In 1993, after more than two decades of work on this topic, Allan published a monograph entitled *Excitations in a Bose-Condensed Liquid*. This text became a standard reference book within quantum liquid research field.

Griffin was an active member of the Canadian Association of Physicists throughout his career, advocating for Canadian physics and physicists. He served as Chair in 1993. He was elected a Fellow of the Royal Society of Canada in 2003 and was a member of the American Physical Society from 2004. In 2001, he was appointed Visiting Professor at the Collège de France, simultaneously receiving a Bronze Medal from that organization. Griffin also held a number of visiting professorships, including at the University of Trento (1995), Italy, Simon Fraser University, Burnaby, B.C. (1974) and was a Visiting Research Physicist at Kyoto University, Kyoto, Japan (1987-1988).

Towards the end of his career, became interested in the history of liquid helium and superfluidity, in particular, Canadian contributions to this field. He helped found Canadian Association of Physicist's (CAP) Division of History of Physics, serving as Chair

in 2005 and 2006. He also played an organizational role in the ultracold physics community, initiating a Canadian Institute for Advanced Research-sponsored (CIFAR) workshop and conference series focused on ultracold matter, held in Banff and Toronto in the spring and fall of 2005.

Griffin died on May 19, 2011 in Toronto, survived by his wife Christine McClymont and extended family.

References:

This biographical note is drawn largely from Griffin's curriculum vitae and obituaries, including: [Rashmi Desai, Eugene Zaremba. "Obituary of Allan Griffin \(1939-2011\)" *Physics Today*, \(January 9, 2012\).](#)

Scope and content

1962-2014

1.24 m of textual records (10 boxes + 1 oversize folder)

0.04 m of graphic records (4 files)

Personal records of Allan Griffin, Professor Emeritus of Physics at the University of Toronto. Includes notes and drafts for research and articles, correspondence with students and colleagues, notebooks from Griffin's own education, teaching resources such as lecture notes, drafts and transparencies for addresses, and a large number of reprints of Professor Griffin's publications.

Access: Open

Boxes: B2018-0027/001 - /010

B2018-0027/011 (oversize folder)

B2018-0027/001P (photographs)

Related material: Bernard Etkin fonds (B2004-0017); Kenneth G. McNeill fonds; James Prentice fonds; Boris Peter Stoicheff fonds (B2010-0025)

Series 1: Personal and Education

1962-2003

0.07 m of textual records

This series consists of work from Professor Griffin's time at Cornell, where he received his PhD in 1965. It includes notebooks from physics courses given by professors Vinay Ambegaokar and Peter Carruthers and a copy of Professor Griffin's doctoral thesis, "The Electronic Thermal Conductivity and Other Properties of 'Gapless': Superconductors".

Also includes a file about Griffin's election to the Royal Society of Canada in 2003.

Access: Open

Boxes: B2018-0027/001(01) – (09)

Series 2: Correspondence

1987-2010

0.02 m of textual records

This series includes a small quantity of correspondence between Griffin and others (largely colleagues and researchers) that is not easily associated with articles, research, supervision of students, or employment. Griffin transitioned to email in the mid-1990s, but continued to print out significant correspondence and keep it alongside relevant work.

The majority of Griffin's correspondence has been filed in *Series 6 - Research & Professional Activities*, *Series 7 - Manuscripts & Publications*, and *Series 8 - History of the Study of Liquid Helium and Superfluidity*.

Access: Open

Boxes: B2018-0027/001(10) – (16)

Series 3: Employment

1994-2011

0.02 m of textual and graphic records

This series covers Griffin's employment at the University of Toronto on the St George campus from 2000-2011. For the most part, it comprises correspondence and documents related either to Griffin's own travel for professional engagements, or to the visits of other researchers.

Access: Open

Boxes: B2018-0017/001(17) – (22)

Series 4: Conferences

1989-2008

0.03 m of textual and graphic records

This series consists of documents and photographs pertaining to conferences organised by Professor Griffin. Includes correspondence, advertising posters, funding requests, attendance requests and photographs of participants. One of these conferences, the History of Low Temperature Conference (2004), should be seen in the context of Professor Griffin's historical research (Series 8 - *History of the Study of Liquid Helium and Superfluidity*). The rest are associated with his work as a physicist.

Access: Open

Boxes: B2018-0027/002(01) – (09)

B2018-0027/011 (poster)

B2018-0027/001P (photographs)

Series 5: Teaching

1972-2003

0.18 m of textual records

This series includes materials assembled by Professor Griffin over the course of his teaching career as a professor of physics at the University of Toronto, mostly at the Scarborough Campus, where Professor Griffin was based through most of his career. Materials include lecture notes, problem sets, course descriptions, exams and quizzes. As Professor Griffin reused materials for courses over his career, materials for a given class or on a single topic can span more than a decade.

Most materials retained relate to graduate-level courses and folders reflect the groupings in which his papers were left.

Access: Open

Boxes: B2018-0027/002(10) - /003(17)

Series 6: Research and Professional Activities

1970-2006

0.26 m of textual records

This series comprises Professor Griffin's research activities as a condensed matter physicist over the course of his career (1970-2011), and some associated material, such as documents and correspondence related to the supervision of graduate students. Records include: notes, articles by others that have been heavily annotated by Professor Griffin, correspondence with co-researchers (including students), and referee reports. Most of these materials have been retained in the groupings in which they were left by Professor Griffin. Where Professor Griffin had included his own reprints with his research or notes, these have been removed and filed in Series 7 - *Manuscripts & Publications*. Documents associated with Professor Griffin's historical research can be found in Series 8 - *History of the Study of Liquid Helium and Superfluidity*.

Access: Open

Boxes: B2018-0027/004 - /005

Series 7: Manuscripts and Publications

1963-2011

0.35 m of textual records

This series consists of materials related to published and unpublished physics notes, articles, chapters and books by Professor Griffin. In his career, Professor Griffin authored and co-authored hundreds of articles, a number of book chapters and three books. Professor Griffin kept many of his articles in the form of reprints, and these have been included; some feature annotations or corrections that were added at a later unknown date, often in association with later research. Where the date of the annotations can be guessed at due to associated material, it is noted; otherwise, dates of annotations are unknown. Some annotations may be associated with later papers. Other materials, including associated correspondence, notes, referee reports & responses and publication documents, are included with the ensuing publication.

Towards the end of his life (2009-2011), Professor Griffin collaborated on research that produced a number of interrelated papers, many of which remain unpublished. Materials produced during this period have been divided according to their apparently closest-related publication (some of which are posthumous).

Documents associated with Professor Griffin's publications on the history of physics can be found in Series 8 - *History of the Study of Liquid Helium and Superfluidity*.

Access: Open

Boxes: B2018-0027/005(30) - /008(07)

Series 8: History of the Study of Liquid Helium and Superfluidity

1994-2010

0.15 m of textual and graphic records

In the latter part of his career, Professor Griffin pursued an interest in the history of research into liquid helium and superfluidity, particularly that of scientists at or connected to the University of Toronto. This series contains research materials, correspondence, notes and publications related to this historically-oriented interest; addresses given on historical topics can be found in Series 9 - *Addresses*. Individuals researched and written about by Professor Griffin include Jack Allen, Donald Austin Misener, Laszlo Tisza, John Cunningham McLennan and Oliver Penrose. For some of these individuals, correspondence with Professor Griffin inquiring about their work is included.

Access: Open

Boxes: B2018-0027/008(08) - /009(09)
B2018-0027/001P (photographs)

Series 9: Addresses

1971-2010

0.15 m of textual records

This series consists of materials for and associated with addresses given by Professor Griffin, primarily from the beginning and end of Professor Griffin's career. Consists of notes for talks, transparencies and printed slides. Many talks were given in more than one location over the course of a year; in this case, the location or locations indicated are the one recorded on the surviving slides or notes. Originally, transparencies were stored within the pages of magazines; where the magazine is relevant (i.e. related to the address in some way), the front cover the magazine is also included.

Access: Open

Boxes: B2018-0027/009(10) - /010(14)

Appendix: File Listings

Series 1: Personal and Education

File number	File title	Date range
B2018-0027/001(01)	Certificate for sponsorship purchase of portion of Bruce Trail	1993
B2018-0027/001(02)	Election to The Royal Society of Canada (May 15, 2003). Welcome letter, biographies	2003
B2018-0027/001(03)	Cornell University. Course notes: "Fermi liquid theory" (Vinay Ambegoakar), 1962	1962
B2018-0027/001(04)	Cornell University. Course notes: "Advanced solid state physics – Many Body Problem, Book II" (Professor Peter Carruthers), 1962	1962
B2018-0027/001(05)	Cornell University. Course notes: Physics 636 "Many Body Problem Book 4"	1962
B2018-0027/001(06)	Cornell University. Course notes: "Superconductivity" (Professor V. Ambegoakar)	1963
B2018-0027/001(07)	Cornell University. Course notes: "Superconductivity Bk 2" Spring 1963 (Professor V. Ambegoakar)	1963
B2018-0027/001(08)	A. Griffin. "The Electronic Thermal Conductivity and Other Properties of "Gapless" Superconductors" Doctoral Thesis, Cornell University (1965) [1 of 2]	1965
B2018-0027/001(09)	A. Griffin. "The Electronic Thermal Conductivity and Other Properties of "Gapless" Superconductors" Doctoral Thesis, Cornell University (1965) [2 of 2]	1965

Series 2: Correspondence

File number	File title	Date range
B2018-0027/001(10)	Correspondence with Mezhov-Deglin	1987
B2018-0027/001(11)	Correspondence with AECL Laboratories, Chalk River	1992
B2018-0027/001(12)	Correspondence with Stringari, Tam, Campbell	1995
B2018-0027/001(13)	Correspondence with Kathy Levin	2007
B2018-0027/001(14)	Correspondence	2007-2008
B2018-0027/001(15)	Correspondence with N. Berloff, A. Miller, E. Taylor	2009
B2018-0027/001(16)	Correspondence	2010

Series 3: Employment

File number	File title	Date range
B2018-0027/001(17)	Research leaves and residences, 1994-1995, 1997, 1999. Official documents. Description of research contributions	1994-2001
B2018-0027/001(18)	"A Celebration of Bryan Statt's Life and Work". Flyer	2004
B2018-0027/001(19)	Duncan O'Dell appointment as visiting professor at Department of Physics, U of T, 2005. Correspondence, articles, curriculum vitae	2005
B2018-0027/001(20)	"Bose-Einstein condensate celebrates its birthday today" by T. Neff in The Daily Camera, June 5, 2005. Quote from Griffin	2005
B2018-0027/001(21)	Shunji Tsuchiya. Correspondence related to visit to Toronto (Aug 11-30, 2010)	2010
B2018-0027/001(22)	APS Dallas, Texas. Hotel cancellation	2011

Series 4: Conferences

File number	File title	Date range
B2018-0027/002(01)	High Temperature Superconductivity Spring School (3rd: Lisbon, Portugal: 8-12 May, 1989). (Conference) List of participants	1989
B2018-0027/001P(01)	High Temperature Superconductivity Spring School (3rd: Lisbon, Portugal: 8-12 May, 1989). Colour photoprint of conference participants	1989
B2018-0027/002(02)	International Workshop on Bose-Einstein Condensation (1st: Levico-Terme (Trento, Italy): May 31-June 4, 1993). Correspondence, funding requests, referee report on associated book proposal	1993
B2018-0027/011	International Workshop on Bose-Einstein Condensation (1st: Levico-Terme (Trento, Italy): May 31-June 4, 1993). Poster	1993
B2018-0027/002(03)	History of Low Temperature Conference (1st: Paris: November 13-14, 2004. Notes, correspondence, funding	2004
B2018-0027/002(04)	Canadian Institute for Advanced Research (CIAR) UltraCold Matter Workshop (1st: February 24th-27th, 2005). Fox, K. <i>Nature</i> article about the conference (24th March, 2005)	2005
B2018-0027/002(05)	Canadian Institute for Advanced Research (CIAR) UltraCold Matter Workshops (2nd-3rd: Banff, Alberta: October 13-15, 2005 and February 24-26th, 2006). Correspondence and proposals for both conferences, attendees list (2nd), final report by Duncan O'Dell (3rd)	2005-2006
B2018-0027/001P(02)	Canadian Institute for Advanced Research (CIAR) UltraCold Matter Workshop (3rd: Banff, Alberta: February 24-26th, 2006). Colour photoprints of participants	2006
B2018-0027/002(06)	Canadian Association of Physicists. Congress (61st: 2006: St. Catharines, ON). Program, correspondence	2006
B2018-0027/002(07)	European Science Foundation. Cold quantum matter (EuroQUAM) meeting, (7-8 December 2006: Strasbourg, France)	2006

File number	File title	Date range
B2018-0027/002(08)	Low Temperature Conference 2008 (LT25) (25th: Amsterdam, Netherlands: 6th-13th August, 2008). Correspondence, historical overview, nametag	2008
B2018-0027/002(09)	CIFAR UltraCold Atoms Meeting, Halifax August 12th-16th, 2009. List of participants	2009

Series 5: Teaching

File number	File title	Date range
B2018-0027/002(10)	Surface plasmons: "Brillouin Light Scattering Review". Notes for teaching?	[ca. 1972-1974]
B2018-0027/002(11)	"Simon Fraser University Lectures Part II". Lecture notes	1974
B2018-0027/002(12)	"Second Quantization". Explanatory notes associated with teaching.	[198-]
B2018-0027/002(13)	PHYS1520; "Quantum Mechanics II". (1979-1982). Exams and problem sets	1979-1982
B2018-0027/002(14)	PHYS1520; "Quantum Mechanics II". (1979-1982). Lecture notes	1979-1982
B2018-0027/002(15)	PHY B04F; "Waves". (1981-1984), and associated class syllabi, lecture notes	1981-1984
B2018-0027/002(16)	PHYS3180; "Many Body Theory". Problem sets, notes.	1978, 1985
B2018-0027/002(17)	PHYS3180 and PHYS3190; "Many Body Theory I". "Many Body Theory II". Lectures, other course notes (1 of 2)	1985-1986
B2018-0027/002(18)	PHYS3180 and PHYS3190; "Many Body Theory I". "Many Body Theory II". Lectures, other course notes (2 of 2)	1985-1986
B2018-0027/002(19)	René Côté (PhD 1988). Documents relating to supervision of René Côté. Correspondence, notes	1987-1989
B2018-0027/003(01)	"Effective Electron-Electron Interactions – source of Cooper pairing". Lecture. Notes. Spring 1989	1989
B2018-0027/003(02)	PHYS3190; "Superconductivity and Plasmon". (1989-1990). Notes	[ca. 1989-1990]
B2018-0027/003(03)	PHYS1500/G1500; "Advanced Statistical Mechanics". [Includes notes from 1974, similar course?]	1974, 1991

File number	File title	Date range
B2018-0027/003(04)	PHY C21F; "Classical and Quantum Waves". (1992). Notes. [see also PHY B04F 1981-1984]	1992
B2018-0027/003(05)	PHYS2170; "Condensed Matter Physics II". (Fall 1992) Notes	1992
B2018-0027/003(06)	PHYS3190 "Many Body Theory II" "X for itinerant electrons" "Fermi Liquid Theory". Notes, course overview, problem sets	[ca. 1989-1994]
B2018-0027/003(07)	PHYS3190; "Many Body Theory". Notes (n.d.)	[ca. 1994]
B2018-0027/003(08)	PHYS3180 and PHYS3190; "Many Body Theory I" "Many Body Theory II". Course outline	1984-1994
B2018-0027/003(09)	PHYS3180 and PHYS3190; "Many Body Theory I" "Many Body Theory II". Problem Sets, course description (1990), exam (1985, 1994)	1985-1994
B2018-0027/003(10)	Hua Shi (PhD 1997). Correspondence, notes, relating to supervision of Hua Shi	1994-1995
B2018-0027/003(11)	PHYS481/1481; "Statistical Mechanics of Interacting Particles". January 1996. Notes	1996
B2018-0027/003(12)	PCSD01F. Lecture notes taken by W. Gradin and a student, Fall 1996	1996
B2018-0027/003(13)	PSCD02; "Bose-Einstein Condensation (BEC) of Atomic Gases". (January 1998). Lecture notes	1998
B2018-0027/003(14)	PHY2301; "Structure and Dynamics of Condensed Matter". (Spring 2003 and earlier). Lecture notes (2003), notes, mid-term solutions (1992)	1992-2001
B2018-0027/003(15)	PSCD01F/PHY341; "The Physical Sciences in Contemporary Society". Annotated exams, midterms, quizzes and other assignments	1993-2001
B2018-0027/003(16)	PSCD01F/PHY341; "The Physical Sciences in Contemporary Society". Lecture notes	1994-2001
B2018-0027/003(17)	PHY2313; "BEC and ultracold atoms". (1997, 2000, Fall 2003) Course plan, PowerPoint slides, lecture notes, notes, problem sets	1997-2003

Series 6: Research and Professional Activities

File number	File title	Date range
B2018-0027/004(01)	J. Harris, E. Zaremba. Notes, unidentified drafts, correspondence	[ca. 1970-1974]
B2018-0027/004(02)	Size effects. Notes, correspondence and unidentified drafts with E. Zaremba	1971-1974
B2018-0027/004(03)	H. Kranz. "Surface Correlation Energy of a Metal". MSc Thesis, December 1973. Manuscript and associated data and notes	[ca. 1973-1975]
B2018-0027/004(04)	Ferromagnetics. Notes, June 1975	1975
B2018-0027/004(05)	Sum rules, infinite barrier model, correlation energy. Miscellaneous notes (associated with work of H. Kranz)	1975
B2018-0027/004(06)	Notes	[197-]
B2018-0027/004(07)	Notes possibly associated with the work of S. Payne and T.H. Cheung	1981-1984
B2018-0027/004(08)	Y. Nepomnyashchiy. Notes with front pages of associated reprints	[ca. 1984]
B2018-0027/004(09)	Dielectric Formula. Notes	1989
B2018-0027/004(10)	Liquid helium. Annotated papers by R. Feynman, D. Pines. (n.d.)	[198-]
B2018-0027/004(11)	P. Nozières (change in notation, "derivation of kinetic equation from Green's function"). Notes. [see also: Babu & Brown, 1991]	1990-1991
B2018-0027/004(12)	Babu & Brown. Miscellaneous notes	1990-1991
B2018-0027/004(13)	H. Glyde. Correspondence and chapter corrections relating to Glyde book, "Excitations in Liquid and Solid Helium" (1995) [See also: Babu & Brown, 1991]	1991
B2018-0027/004(14)	Addison-Wesley Publishers Limited "Explore! A Book of Science". Correspondence re: Griffin comments	1992-1993
B2018-0027/004(15)	Treatment of Bose system, Bose gases, Gould & Wong. Miscellaneous notes, correspondence (D. Snoke)	1986-1994
B2018-0027/004(16)	Generalized GP equation for low density Bose gas in surface region. Notes	1995
B2018-0027/004(17)	Response functions in inhomogeneous Bose liquids. Notes.	1995
B2018-0027/004(18)	⁴ He Surfaces. Notes, correspondence, annotated article (Saam)	1995

File number	File title	Date range
B2018-0027/004(19)	Bose Wong-Gould f-sum rules. Correspondence and associated notes with Henry Glyde	1990, 1996
B2018-0027/004(20)	Free and trapped Bose gas. Miscellaneous notes and correspondence	1996-1997
B2018-0027/004(21)	ZNG theory puzzle and solution. Notes, correspondence, associate reprints [1/2]	1997-1998
B2018-0027/004(22)	ZNG theory puzzle and solution. Notes, correspondence [2/2]	1997-1998
B2018-0027/005(01)	ZGN' theory. Notes and correspondence, including calculations from T. Nikuni	1998-1999
B2018-0027/005(02)	L.P. Pitaevskii "Phenomenological Theory of Superfluidity Near the λ Point." (1959) Annotated paper (copy) and notes	1999
B2018-0027/005(03)	S(Q,w) at finite temperature (T). Notes, unpublished draft paper	2000-2001
B2018-0027/005(04)	Collective modes in Fermi gases. Notes, annotated reprints	2001-2002
B2018-0027/005(05)	Collective modes in vortex arrays. Miscellaneous notes, annotated reprints/notes, correspondence	2002
B2018-0027/005(06)	Notes	1998-2005
B2018-0027/005(07)	Appearance in "The Race for Absolute Zero" documentary film. PBS/NOVA. (2006). Correspondence, notes	2006
B2018-0027/005(08)	Bose-Fermi gases. Notes, correspondence	2007
B2018-0027/005(09)	Bose gases. Correspondence with Mouneim Ettouhami, notes and Ettouhami preprint	2007
B2018-0027/005(10)	Modes. Notes, calculations and correspondence	2008
B2018-0027/005(11)	E. Taylor "First and second sound in a unitary Fermi gas". Annotated manuscript (2008)	2009
B2018-0027/005(12)	'Bosonic condensate – general theory at finite T.' Notes [see also: J. Harris and A. Griffin, 1975; J. Harris, H. Kranz, A. Griffin, 1974]	2008-2009
B2018-0027/005(13)	E. Taylor, A. Griffin, H. Hu, X.-J. Liu, Stringari. Mixed correspondence ('second sound'), visits (2009)	2009

File number	File title	Date range
B2018-0027/005(14)	R. Meppelink, R. van Rooij, J. M. Vogels and P. van der Straten. "Enhanced heat flow in the hydrodynamic-collisionless regime" (2009). Annotated paper, referee report	2009
B2018-0027/005(15)	P. van der Straten. "First and second sound in a Bose gas." FOM Research Proposal (n.d.) annotated paper and referee report	2009
B2018-0027/005(16)	R. Meppelink, S.B. Koller, J.M. Vogels, H.T.C. Stoof, P. van der Straten. "Second sound dipole mode in a partially Bose-Einstein condensed gas." (2009) Annotated paper	2009
B2018-0027/005(17)	Pulse propagation. Annotated preprints, correspondence, notes and a referee report of E. Arahata, T. Nikuni, 2009 [see also, T. Nikuni and A. Griffin, "Hydrodynamic modes and pulse propagation in a cylindrical Bose gas above the Bose-Einstein transition", Phys. Rev. A58, 4044-4050 (1998)]	2009
B2018-0027/005(18)	Photoemission spectra. Notes and correspondence (D.S Jin)	2009
B2018-0027/005(19)	Density-Functional Theory for Bose gases. Annotated preprint and notes (n.d.) [See also: Griffin, 1995]	[ca. 2009]
B2018-0027/005(20)	Popov theory. Notes and correspondence	2009
B2018-0027/005(21)	CIFAR Quantum Materials Program Member Report. Draft printout	2009
B2018-0027/005(22)	M. A. Escobedo, M. Mannarelli, C. Manuel. "Bulk viscosities for cold Fermi superfluids close to the unitary limit." (2009). Referee report, annotated part preprint	2009
B2018-0027/005(23)	J.P. Gaebler, J.T. Stewart, T.E. Drake, D.S. Jin, A. Perali, P. Pieri and G.C. Strinati. "Observation of pseudogap behaviour in a strongly interacting Fermi gas" Nature Physics volume 6, pages 569-573 (2010). Referee report, authors' response to Griffin referee report comments, revised preprint	2010
B2018-0027/005(24)	Bragg scattering. Notes, drafts, graphs, annotated reprints, correspondence. 2007-2010 [see also: Taylor, Hu, Liu, Griffin 2008; Hu, Taylor, Liu, Griffin 2009]	2007-2010

File number	File title	Date range
B2018-0027/005(25)	M.A. Escobedo, C. Manuel. "Effective field theory and dispersion law of the phonons of a non-relativistic superfluid" (2010) Annotated e-print	2010
B2018-0027/005(26)	T. Mukaiyama. Notes on talk	2010
B2018-0027/005(27)	G. Bertaina, L. Pitaevskii, S. Stringari "First and second sound in cylindrically trapped gases" <i>Phys. Rev. Lett.</i> 105, 150402 (2010) & related work on cylindrical traps. Notes, annotated drafts and correspondence	2010
B2018-0027/005(28)	T. Kita "Exact results on the two-particle Green's function of a Bose-Einstein condensate" (2010) Annotated paper, referee report and correspondence	2010
B2018-0027/005(29)	Miscellaneous unaffiliated notes 2000-2010	2000-2010

Series 7: Manuscripts and Publications

File number	File title	Date range
B2018-0027/005(30)	A. Griffin and P. Carruthers, Thermal Conductivity of Solids. IV: "Resonance Fluorescence Scattering of Phonons by Donor Electrons in Germanium". <i>Phys. Rev.</i> 131, 1976-1995 (1963). Reprint with annotation	1963
B2018-0027/005(31)	J. Harris and A. Griffin, "Surface Excitations in the Random Phase Approximation". <i>Can. J. Phys.</i> 48, 2592-2605 (1970). Draft, corrected reprint	1969-1971?
B2018-0027/005(32)	T.H. Cheung and A. Griffin, "Shielded Potential Approximation for Excitations in a Bose Gas at Finite Temperatures". <i>Phys. Letters</i> 35A, 141-142 (1971). Annotated reprint	1971
B2018-0027/006(01)	T.H. Cheung and A. Griffin, "Density Fluctuations in an Interacting Bose Gas". <i>Phys. Rev.</i> A4, 237-245 (1971). Reprint, annotated reprint	1971-?
B2018-0027/006(02)	A. Griffin and J. Harris, "Phononlike Surface Modes in Two-Component Plasmas and in Systems with Short-Range Interactions". <i>Phys. Rev.</i> A5, 2190-2197 (1972). Reprint	1972

File number	File title	Date range
B2018-0027/006(03)	A. Griffin, "Comment on the Theory of Two-Roton Bound States". <i>Phys. Rev. A</i> 6, 512-514 (1972). Reprint	1972
B2018-0027/006(04)	J. Harris and A. Griffin. "Surface Plasmons in the Random Phase Approximation: III Dependence on the Static Density Profile". Unpublished note (n.d.) [1972?]	[1972?]
B2018-0027/006(05)	A. Griffin and T.H. Cheung, "Excitations in a Bose Gas at Finite Temperatures. II. Relation Between Single-Particle and Density Fluctuations". <i>Phys. Rev. A</i> 7, 2086-2095 (1973). Reprint	1973
B2018-0027/006(06)	A. Griffin and E. Zaremba, "Theory of Surface Excitations in Fermi Systems of Finite Thickness". <i>Phys. Rev. A</i> 8, 486-500 (1973). Reprint	1973
B2018-0027/006(07)	A. Griffin, H. Kranz and J. Harris, "Normal Modes and the R.P.A. Correlation Energy of Metallic Films". <i>J. Phys. F (Metal Physics)</i> 4, 1744-1755 (1974). Photocopy of reprint	1974
B2018-0027/006(08)	A. Griffin. "A New Approximation for the Correlation Energy Functional of a Bounded Electron Gas" Unpublished article. (n.d.) [1975?] Manuscript	[1975?]
B2018-0027/006(09)	J. Harris and A. Griffin, "Correlation Energy and Van der Waals Interaction of Coupled Metal Films". <i>Phys. Rev. B</i> 11, 3669-3677 (1975). Draft, reprint, reprint of associated paper by Inglesfield and Wikborg	[1974?]-1975
B2018-0027/006(10)	E. Zaremba and A. Griffin, "Spin Susceptibility of Exchange Enhanced Metallic Films". <i>Can. Journ. Phys.</i> 53, 891-912 (1975)	1975
B2018-0027/006(11)	A. Griffin and J. Harris, "Sum Rules for a Bounded Electron Gas". <i>Can. Journ. Phys.</i> 54, 1396-1408 (1976). Reprint, drafts (n.d.)	[1975?]-1976
B2018-0027/006(12)	A. Griffin and G. Gumbs, "Theory of Surface Spin Waves in Itinerant-Electron Ferromagnets". <i>Phys. Rev. Letters</i> 37, 371-375 (1976). Reprint	1976
B2018-0027/006(13)	A. Griffin, "Sum Rules for Superfluid ⁴ He at Finite Temperatures". <i>Phys. Letters</i> 71A, 237-239 (1979). Reprint	1979

File number	File title	Date range
B2018-0027/006(14)	G. Gumbs and A. Griffin, "Critical Indices for Correlation Functions in Ferromagnetic Films" <i>Can. Journ. Phys.</i> 57 1686-1698 (1979). Reprint	1979
B2018-0027/006(15)	A. Griffin, "Density Fluctuation Spectrum of Superfluid ⁴ He at Finite Temperatures". <i>Phys. Rev. B</i> 19, 5946-5949 (1979). Reprint, referee reports and responses, correspondence	1978-1979
B2018-0027/006(16)	A. Griffin, "Structure of the Static Pair-Correlation Function in Superfluid, ⁴ He". <i>Phys. Rev. B</i> 22, 5193-5198 (1980). Reprint	1980
B2018-0027/006(17)	H. Kranz and A. Griffin, "Effect of Surface Spin Fluctuations on Chemisorbed Atoms". <i>J. Phys. F (Metal Physics)</i> , 10, 1195-1212 (1980). Reprint, manuscript, correspondence, referee report response	1979-1980
B2018-0027/006(18)	G. Gumbs and A. Griffin, "Surface Spin Waves in a Tight-Binding Itinerant Ferromagnet". <i>Surface Science</i> 91, 669-693 (1980). Referee report response (n.d.)	[1979?]
B2018-0027/006(19)	A. Griffin, "High- and Low-Frequency Behaviour of Response Functions in a Bose Condensed Liquid". <i>Journ. Low Temp. Physics</i> , 44, 441-451 (1981). Reprint	1981
B2018-0027/006(20)	A. Griffin and E. Talbot, "Theory of Neutron Scattering from Thermally-Excited Quasiparticles in Superfluid ⁴ He". <i>Phys. Rev. B</i> 24, 5075-5085 (1981). Reprint	1981
B2018-0027/006(21)	F. Weling and A. Griffin, "Finite-Size Effects on the Static Structure Factor of Two-Dimensional Crystals", <i>Phys. Rev. B</i> 25, 2450-2463 (1982). Reprint	1982
B2018-0027/006(22)	E. Talbot and A. Griffin, "High- and Low-Frequency Behaviour of Response Functions in a Bose Liquid: One-Loop Approximation", <i>Ann. of Phys. (N.Y.)</i> 151, 71 (1983). Reprint	1983
B2018-0027/006(23)	F. Weling, A. Griffin and M. Carrington, "Phonon Peaks in the Dynamic Structure Factor of a 2-Dimensional Harmonic Crystal", <i>Phys. Rev. B</i> 28, 5296-5299 (1983). Reprint	1983

File number	File title	Date range
B2018-0027/006(24)	E. Talbot and A. Griffin, "Theory of Neutron Scattering from Superfluid ^4He at Finite Temperatures II", <i>Phys. Rev. B</i> 29, 2531-2543 (1984). Reprint	1984
B2018-0027/006(25)	A. Griffin, "Sum Rules and the Momentum Distribution in Bose-Condensed Systems", <i>Phys. Rev. B</i> 30, 5057-5061 (1984). Reprint	1984
B2018-0027/006(26)	E. Talbot and A. Griffin, "The Dielectric Formalism for ^3He - ^4He Mixtures", <i>Journ. Low Temp. Phys.</i> 56, 141-165 (1984). Reprint	1984
B2018-0027/006(27)	E. Talbot and A. Griffin, "Symmetry Breaking, Ward Identities and the Two-Fluid Model", <i>Phys. Rev. B</i> 29, 3952-3956 (1984). Reprint, annotated reprint	1984
B2018-0027/006(28)	C. Gay and A. Griffin, "First and Second Sound in a Weakly Interacting Dilute Bose Gas", <i>Journ. Low. Temp. Phys.</i> 58, 479-495 (1985). Reprint	1985
B2018-0027/006(29)	A. Griffin, "Extraction of the Condensate Fraction from the Momentum Distribution in Superfluid ^4He ", <i>Phys., Rev. B</i> 32, 3289-3291 (1985). Reprint	1985
B2018-0027/006(30)	S.H. Payne and A. Griffin, "Goldstone Phonons in a Bose Condensed Gas at Finite Temperatures: One Loop Approximation", <i>Phys. Rev. B</i> 32, 7199-7208 (1985). Reprint	1985
B2018-0027/006(31)	A. Griffin and S.H. Payne, "Neutron Scattering as a Probe Particle-like Excitation in Superfluid ^4He : A Model Calculation", <i>Journ. Low Temp. Phys.</i> , 64, 155-164 (1986). Reprint, correspondence with L.P. Pitaevskii, envelope	1986-1987
B2018-0027/006(32)	A. Griffin, "The Effect of the Bose Broken Symmetry on the Dynamics of Superfluid ^4He : A Review", <i>Can. Journ. Phys.</i> , 65, 1368-1376 (1987). Reprint	1987
B2018-0027/006(33)	R. Côté and A. Griffin, "Excitonic Modes in a Bose-Condensed Electron-Hole Gas in the Pairing Approximation", <i>Phys, Rev. B</i> 37, 4539-4551 (1988). Reprint, notes	1987-1988

File number	File title	Date range
B2018-0027/006(34)	A. Griffin, "Acoustic Plasmons in a Coupled Array of Sheets and Chains and Their Role in $\text{YBa}_2\text{Cu}_3\text{O}_7$ ", <i>Phys. Rev. B</i> 37, 5943-5946 (1988) (Rapid Communications). Reprint	1988
B2018-0027/006(35)	A. Griffin, "Excitations of a Dense Charged Bose Gas at Finite Temperatures", <i>Physica C</i> (Superconductivity), C156, 12-17 (1988). Reprint	1988
B2018-0027/006(36)	A. Griffin and E. Svensson, "New Interpretation of the Quasiparticle Weight $Z(Q)$ for superfluid ^4He ", <i>Physica B</i> 165-166, 487-488 (1990). Manuscript, abstract	1990
B2018-0027/006(37)	R. Côté and A. Griffin, "Cooper-pair-condensate fluctuations and plasmons in layered superconductors", <i>Phys. Rev. B</i> 48, 10404-10425 (1993). Reprint, notes, correspondence	1990-1993
B2018-0027/006(38)	H. Shi, G. Verechaka and A. Griffin, "Theory of the decay luminescence spectrum of a Bosecondensed interacting exciton gas", <i>Phys. Rev. B</i> 50, 1119-1125 (1994). Reprint, notes	1993-1994
B2018-0027/006(39)	K.J. Juge and A. Griffin, "Theory of neutron scattering from the two-roton, two-maxon and maxon-roton states in superfluid ^4He ", <i>Journ. Low Temp. Phys.</i> 97, 105-144 (1994). Reprint	1994
B2018-0027/006(40)	A. Griffin, "Rigorous density functional theory for inhomogeneous Bose-condensed fluids", <i>Can. Journ. Phys.</i> (Special Brockhouse Issue), 73, 755-762 (1995). Reprint, annotated preprint [2009?]	1995, [2009?]
B2018-0027/006(41)	H. Shi, [H. Rastegar] and A. Griffin, "Bose-Einstein condensation of a coupled two-component Bose gas", <i>Phys. Rev. E</i> 51, 1075-1080 (1995). Draft	1995
B2018-0027/006(42)	A. Griffin and S. Stringari, "Surface region of superfluid helium as an inhomogeneous Bose-condensed gas", <i>Phys. Rev. Letters</i> , 76, 259-262 (1996). Reprint, referee report responses and correspondence [see also: Correspondence 1995]	1995-1996

File number	File title	Date range
B2018-0027/006(43)	W.C. Wu and A. Griffin, "Quantized hydrodynamic model and the dynamic structure factor for a trapped Bose gas", <i>Phys. Rev. A</i> 54, 4204-4212 (1996). Annotated reprint	1996
B2018-0027/006(44)	A. Griffin, "Conserving and gapless approximations for an inhomogeneous Bose gas at finite temperatures", <i>Phys. Rev. B</i> 53, 9342-9347 (1996). Reprint, ArXiv e-print (2006)	1996, 2006
B2018-0027/006(45)	A. Griffin, W.C. Wu and Stringari, "Hydrodynamic modes in a trapped Bose gas above the Bose-Einstein transition", <i>Phys. Rev. Letters</i> 78, 1838-1841 (1997). Annotated reprint, correspondence, notes	1997
B2018-0027/006(46)	D.A.W. Hutchinson, E. Zaremba and A. Griffin, "Finite temperature excitations of a trapped Bose gas", <i>Phys. Rev. Letters</i> 78, 1842-1845 (1997). Reprint	1997
B2018-0027/006(47)	A. Griffin and E. Zaremba, "First and second sound in a uniform Bose gas", <i>Phys. Rev. A</i> 56, 4839-4844 (1997). Reprint	1997
B2018-0027/006(48)	A. Griffin. "Low-temperature physics: Condensate forced out of hiding". <i>Nature News and Views. Nature</i> vol. 391, pages 25–26 (1 January 1998). Manuscript, photocopy of pages in <i>Nature</i>	1997
B2018-0027/006(49)	E. Zaremba, A. Griffin and T. Nikuni, "Two-fluid hydrodynamics of a trapped Bose-condensed gas" <i>Phys. Rev. A</i> 57, 4695-4698 (1998). Correspondence	1998
B2018-0027/007(01)	T. Nikuni and A. Griffin, "Hydrodynamic damping in trapped Bose gases", <i>Journ. Low Temp. Phys.</i> 111, 793-814 (1998). Reprint, annotated reprint [2010?]	1998
B2018-0027/007(02)	T. Nikuni and A. Griffin, "Hydrodynamic modes and pulse propagation in a cylindrical Bose gas above the Bose-Einstein transition", <i>Phys. Rev. A</i> 58, 4044-4050 (1998). Annotated reprint [2009?]. [See also: pulse propagation]	1998, [2009?]

File number	File title	Date range
B2018-0027/007(03)	M. Imamovic-Tomasovic and A. Griffin, "Coupled Hartree-Fock-Bogoliubov Kinetic Equations for a Trapped Bose Gas", <i>Phys. Rev. A</i> 60, 494-503 (1999). 1998 Reprint	1998
B2018-0027/007(04)	E. Zaremba, T. Nikuni and A. Griffin, "Dynamics of Trapped Bose Gases at Finite Temperatures", <i>Journ. Low Temp. Phys.</i> 116, 277-345 (1999). Annotated reprints	1999
B2018-0027/007(05)	A. Griffin, "A Brief History of Our Understanding of BEC: From Bose to Beliaev", in <i>Bose-Einstein Condensation in Atomic Gases</i> , ed. by M. Inguscio, S. Stringari and C. Wieman (IOS Press, Amsterdam, 1999), p. 1-13. Reprint	1995
B2018-0027/007(06)	A. Griffin, "Theory of Excitations of the Condensate and Non-Condensate at Finite Temperatures", 3 invited lectures, in <i>Bose-Einstein Condensation in Atomic Gases</i> , ed. by M. Inguscio, S. Stringari and C. Wieman (IOS Press, Amsterdam, 1999), p.591-623. Reprint	1999
B2018-0027/007(07)	M. Imamovic-Tomasovic and A. Griffin, "Generalized Boltzmann Equation for a Trapped Bose-Condensed Gas using the Kadanoff-Baym Formalism", in <i>Progress in Nonequilibrium Green's Functions</i> , ed. by M. Bonitz (World Scientific, Singapore, 2000). Preprint (n.d.), photocopies of chapter	1999-[2000?]
B2018-0027/007(08)	M. Imamovic-Tomasovic and A. Griffin, "Quasiparticle kinetic equation in a trapped Bose gas at low temperatures", <i>Journ. Low Temp. Phys.</i> 122, 617-656 (2001). Reprint, annotated reprints	2001
B2018-0027/007(09)	T. Nikuni and A. Griffin, "Landau-Khalatnikov two-fluid hydrodynamics of a trapped Bose gas", <i>Phys. Rev. A</i> 63, 033608-033628 (2001). Annotated reprint	2001
B2018-0027/007(10)	J.E. Williams and A. Griffin, "Damping of condensate collective modes due to equilibration with the noncondensate", <i>Phys. Rev. A</i> 63, 023612-023619 (2001). Reprint	2001

File number	File title	Date range
B2018-0027/007(11)	J.E. Williams, E. Zaremba, B. Jackson, T. Nikuni and A. Griffin, "Dynamical instability of a condensate induced by a rotating thermal cloud", <i>Phys. Rev. Letters</i> , 88, 070401 (2002). Annotated reprint, referee report, correspondence, notes	2001-2002
B2018-0027/007(12)	T. Nikuni and A. Griffin, "Frequency and damping of hydrodynamic modes in a trapped Bose-condensed gas", <i>Phys. Rev. A</i> 69, 023604 (2004). Partial reprint	2004
B2018-0027/007(13)	S. Tsuchiya and A. Griffin, "Damping of Bogoliubov Excitations in Optical Lattices", <i>Phys. Rev. A</i> 70, 023611 (2004). Reprint	2004
B2018-0027/007(14)	D. H. J. O'Dell and A. Griffin. "Two-fluid hydrodynamics of a uniform Fermi gas in the unitary limit." [Unpublished Manuscript]. May 31, 2005. Preprint, associated annotated reprint (H. Heiselberg)	2005
B2018-0027/007(15)	E. Taylor and A. Griffin, "Two-fluid hydrodynamic modes in a trapped superfluid gas", <i>Phys. Rev. A</i> 72, 053630 (2005). Annotated reprint	2005
B2018-0027/007(16)	Y. Ohashi and A. Griffin, "Single-particle excitations in a trapped gas of Fermi atoms in the BCS-BEC crossover region. II. Broad Feshbach resonance", <i>Phys. Rev. A</i> . 72, 063606 (2005). Reprint, correspondence	2005
B2018-0027/007(17)	E. Taylor, A. Griffin, N. Fukushima and Y. Ohashi, "Pairing fluctuations and the superfluid density through the BCS-BEC crossover", <i>Phys. Rev. A</i> 74, 063626 (2006). Reprint	2006
B2018-0027/007(18)	E. Taylor, H. Hu, X.-J. Liu, A. Griffin, "Probing two-fluid hydrodynamics in a trapped Fermi superfluid at unitarity" e-print: arXiv:0709.0698 (2007). Calculations, notes, preprints (2007, 2010)	2007-2010
B2018-0027/007(19)	E. Taylor, A Griffin, Y. Ohashi. "Spin-polarized Fermi superfluids as Bose-Fermi mixtures", <i>Phys. Rev. A</i> 76, 023614 (2007). Reprint	2007

File number	File title	Date range
B2018-0027/007(20)	N. Fukushima, Y. Ohashi, E. Taylor and A. Griffin, "Superfluid density and condensate fraction in the BCS-BEC crossover regime at finite temperatures", <i>Phys. Rev. A</i> 75, 033609 (2007). Annotated reprint	2007
B2018-0027/007(21)	E. Taylor, Hui Hu, Xia-Ji Liu and Allan Griffin, "Variational theory of two-fluid hydrodynamic modes at unitarity", <i>Phys. Rev. A</i> 77, 033608 (2008) Graphs, correspondence, annotated manuscripts, follow-up notes (unpublished), referee report	2007-2010
B2018-0027/007(22)	H. Hu, E. Taylor, X.-J. Liu, A. Griffin. "Variational theory for first and second sound in Bragg scattering" [unpublished manuscript] (May 19, 2009), annotated drafts, correspondence	2009
B2018-0027/007(23)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press, 2009) Notes relating to Chapters 8 & 9 (Vortex Lattices) [see also: J.E. Williams, E. Zaremba, B. Jackson, T. Nikuni and A. Griffin 2002]	1999-2002
B2018-0027/007(24)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Notes, correspondence	1995-2006
B2018-0027/007(25)	A. Griffin, T. Nikuni, and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Miscellaneous notes: "Inserts/errors in book"	[2004-2007?]
B2018-0027/007(26)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press, 2009). Notes relating to Chapter 5 (The Beliaev and the time-dependent HFB approximations)	1998-2008
B2018-0027/007(27)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Notes and correspondence, work with T. Nikuni	2006-2007

File number	File title	Date range
B2018-0027/007(28)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Proposal, author questionnaire	2002-2008
B2018-0027/008(01)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Correspondence relating to editing process	2008
B2018-0027/008(02)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009), errata by various: T. Nikuni, E. Zaremba, 'Jackson'	2008-2009
B2018-0027/008(03)	A. Griffin, T. Nikuni and E. Zaremba. "Bose-condensed gases at finite temperatures" (Cambridge University Press 2009). Royalties documents, cover and index documents	2009
B2018-0027/008(04)	E. Taylor, H. Hu, X.-J. Liu, L. P. Pitaevskii, A. Griffin, S. Stringari, "First and second sound in a strongly interacting Fermi gas", <i>Phys. Rev. A</i> , 80 053601 (2009). Reprint, draft, referee report, correspondence, associated preprints	2009-2010
B2018-0027/008(05)	H. Hu, E. Taylor, X.-J. Liu, S. Stringari and A. Griffin, "Second sound and the density response function in uniform superfluid atomic gases", <i>New Journal of Physics</i> , 12 043040 (2010). Notes, correspondence, annotated reprints	2009-2010
B2018-0027/008(06)	E. Arahata, T. Nikuni, and A. Griffin. "Single-particle spectral density of a Bose gas in the two-fluid hydrodynamic regime", <i>Phys. Rev. A</i> 84, 053612 (2011) Preprint with revisions/annotations, notes	2009-2011
B2018-0027/008(07)	A. Griffin, E. Zaremba, "The Beliaev Broken-Symmetry Description of Superfluidity vs the Classical-Field Approach" in <i>Quantum Gases</i> ed. N. Proukakis (World Scientific Press, Singapore, 2013), pg. 287–298. Manuscript, notes, emails, annotated submission instructions, correspondence, notes, annotated comments on chapter draft by T.M. Wright and M. J. Davis [13]	2010

Series 8: History of the Study of Liquid Helium and Superfluidity

File number	File title	Date range
B2018-0027/008(08)	A. Griffin. "A brief history of Bose-Einstein Condensation during 1925-1995". [unpublished paper] Manuscripts (n.d.)	[1998?]
B2018-0027/008(09)	A. Griffin. "U of T and the discovery of Superfluidity" (1997), with memoir by Jack Allen	1997-[2000?]
B2018-0027/008(10)	A. Griffin "Obituary: John Frank (Jack) Allen (1908-2001)" <i>Nature</i> volume 411, page 436 (24 May 2001). Associated research on Allen, associated article	?-2000?
B2018-0027/001P(03)	A. Griffin "Obituary: John Frank (Jack) Allen (1908-2001)" <i>Nature</i> volume 411, page 436 (24 May 2001). Colour photograph of helium fountain, dated on back (c. 1980)	c. 1980
B2018-0027/008(11)	History of Superfluidity. Correspondence with Sébastien Balibar, Balibar draft article: "Who discovered superfluidity?"	2000
B2018-0027/008(12)	History of Physics at U of T project. Note (n.d.)	[2000s]
B2018-0027/001P(04)	Jack Allen. Black and white and colour photographs (1978, 1986 with Eric Svensson)	2001
B2018-0027/008(13)	Jack Allen. Various historical documents, including correspondence with Allen and others re: Allen, newspaper clippings, Copy of 'InterActions' Department of Physics alumni newsletter (2000)	2000-2001
B2018-0027/008(14)	A. Griffin. "Austin Donald Misener". <i>Proceedings of the Royal Society of Canada, Sixth Series, Volume XII</i> (2001). Obituary. Reprint, associated correspondence, research documents	?-2002
B2018-0027/008(15)	A. Griffin. "Austin Donald Misener". <i>Proceedings of the Royal Society of Canada, Sixth Series, Volume XII</i> (2001). Photo print of researchers at Cavendish and Mond laboratories, Cambridge, 1936. Some identified, including Jack Allen, Donald Misener	?-2002

File number	File title	Date range
B2018-0027/008(16)	Seymour Vosko. A. Griffin "Appraisal of S.H. Vosko" (1994). Draft. A. Griffin. "Seymour Vosko 1929-1994". <i>Proceedings of the Royal Society of Canada. Sixth Series, Volume XI</i> (2000). Reprint, correspondence and other documents	1994-2002
B2018-0027/008(17)	A. Griffin "Superfluidity: a new state of matter" in L. Garwin, T. Lincoln (eds) in <i>A Century of Nature: Twenty-One Discoveries that Changed Science and the World</i> . (Chicago: University of Chicago Press, 2003). Draft, correspondence (2000-2003), contract documents	2000-2003
B2018-0027/008(18)	CAP Division of the History of Physics Proposal. Correspondence	2005
B2018-0027/008(19)	"John C. McLennan and his Pioneering Research on Superfluid Helium" <i>Physics in Canada</i> , Vol. 61, No. 1 (January/February 2005). Reprint, manuscript	2005
B2018-0027/008(20)	J.C. McLennan Research materials: "100 Years of Graduate Physics at University of Toronto", pamphlet (2000), newspaper clippings on McLennan house	2000-2006
B2018-0027/008(21)	A. Griffin "The discovery of superfluidity: a chronology of events 1935-1938." [Unpublished article] (2006) Manuscript, correspondence, copies of original documents pertaining to Jack Allen	2002-2006
B2018-0027/008(22)	A. Griffin. "The discovery of superfluidity: a chronology of events in 1935-1938". Unpublished article. (2006) Manuscript, notes, correspondence [see also: A. Griffin, "Superfluidity: three people, two papers, one prize"]	2001-2006
B2018-0027/009(01)	A. Griffin, D. Monaldi. "A translation and modern assessment of the papers on liquid Helium by Laszlo Tisza published in 1940." (2008) Draft preprint, draft translations (Monaldi), correspondence, copies of original Tisza papers	2008
B2018-0027/009(02)	Documentary interview with Lazlo Tisza. Annotated transcript	[n.d.]

File number	File title	Date range
B2018-0027/009(03)	A. Griffin, "Superfluidity: three people, two papers, one prize", <i>Physics World</i> , August issue, 27-30 (2008). Correspondence	2008
B2018-0027/009(04)	Superfluid helium. Notes, photocopied overheads for non-academic talks	2000-2008
B2018-0027/009(05)	BEC history. Plans for historical book on BEC. Miscellaneous notes, correspondence (Tisza) [see also: "101 Years of Liquid Helium." University of Guelph, Guelph, Ontario. Nov. 10, 2009]	1997, 2003-2009
B2018-0027/009(06)	A. Griffin, "Laszlo Tisza (1907-2009): an appreciation", <i>Journ. Low Temp. Phys.</i> 157, 1573 (2009). Reprint, correspondence and associated research materials	2009
B2018-0027/009(07)	BEC History. Miscellaneous drafts and proposals (with Daniela Monaldi)	2009
B2018-0027/009(08)	A. Griffin, "New light on the intriguing history of superfluidity in liquid ^4He ", <i>Journ. Physics: Condensed Matter</i> , 21,164220 (2009). Reprint, images, correspondence	2009
B2018-0027/009(09)	Oliver Penrose. Plans for historical paper, correspondence with Penrose, annotated reprints	2008-2010

Series 9: Addresses

File number	File title	Date range
B2018-0027/009(10)	"Microscopic Theory of Collective Modes in a Condensed Bose Gas" McMaster University, Hamilton, Ontario. May 19, 1971. Manuscript	1971
B2018-0027/009(11)	"Surface Density Fluctuations in Fermi Liquids". CAP Congress, June 25th-28th, 1972. University of Alberta, Edmonton, Alberta. Manuscript	1972
B2018-0027/009(12)	"Inelastic Scattering from Surface Zero Sound". Seminar. Ohio State University, Columbus, Ohio, May 25, 1972. Manuscript	1972
B2018-0027/009(13)	[Untitled Seminar on "excitations in anharmonic crystals in low temperatures"] MIT, Cambridge, Massachusetts, May 9 [1972?]. Manuscript	(1972-1974)

File number	File title	Date range
B2018-0027/009(14)	"Microscopic Theory of Surface Plasmons." Seminar, NRC – Chemistry Division. February 2, [1972?]. Manuscript	(1972-1974)
B2018-0027/009(15)	"Dispersion Relation of Surface Plasmons in the R.P.A." Seminar. CB2 [?] February 2, [1972?]. Manuscript	Early 1970s
B2018-0027/009(16)	"Surface Paramagnons in Fermi Systems with an Exchange Interaction of Finite Range" APS March Meeting, March 21, 1973. Manuscript	1973
B2018-0027/009(17)	"Surface Magnetization in Exchange – Enhanced Metals" KFA Seminar. March 29, 1974. Manuscript	1974
B2018-0027/009(18)	"Mean Field Theory of the Ferromagnetic Transition Temperature of Metallic Films." Zurich March 18, Liege April 25th, Hannover May 7, Orsay May 14th, 1974. Manuscripts	1974
B2018-0027/009(19)	"Effect of Boundaries on the Ferromagnetic Instability in Metals." Seminar given at University Toronto, Cornell University, 1975. Photocopy of transparencies	1975
B2018-0027/009(20)	with H. Kranz. "Theory of Chemisorption Near the Ferromagnetic Transition" Canadian Association of Physicists (CAP) Congress 1975, York University, Toronto, Ontario, June 9th-12th, 1975. Notes	1975
B2018-0027/009(21)	"Chemisorption of Hydrogen Atoms Near a Phase Transition" Talk. Based on work with H. Kranz. February 1978. Copies of transparencies	1978
B2018-0027/009(22)	"Mean Field Theory of the Ferromagnetic Transition in Metallic Films". International Centre for Theoretical Solid State Physics. Université de Liège, Belgium. April 25, [1970s?]. Seminar. Poster	[Late 1970s]
B2018-0027/009(23)	"Excitations in Bose Gases and Bose Liquids – A Comparison." 17th International Conference on Low Temperature Physics, Amsterdam, Netherlands, August 15-22, 1984. Reprint of talk	1984

File number	File title	Date range
B2018-0027/009(24)	"What Can Ultra Cold Neutrons Tell Us About Superfluid 4He". K.E.K. (The High Energy Accelerator Research Organization) Symposium on UCNs (Ultra Cold Neutrons), March 20, 1988. Tsukuba, Japan. Copy of published talk	1988
B2018-0027/009(25)	with H. R. Glyde "A New Interpretation of Maxons and Rotons in Superfluid 4He" CAP Conference 1990, Memorial University, Newfoundland. June 20th, 1990. Photocopies of transparencies	1990
B2018-0027/009(26)	"Phonon-Roton Spectrum in Superfluid 4He and its Relation to Bose Condensate" Toronto, October 1 [1990?] Photocopies of transparencies [See also Glyde, Griffin 1990]	[1990?]
B2018-0027/009(27)	"New Ideas about Rotons in Liquid 4He" Seminar, Dept. of Physics, Ecole Normale Superieure, Paris, France, July 10, 1991. Photocopies of transparencies	1991
B2018-0027/009(28)	with H. Shi "Dynamics of Bose-Condensed Fluids Involves Study of Correlation Functions". Poster. Les Houches Workshop on Bose-Einstein Condensation, Les Houches, France, April 5 1996. Notes	1996
B2018-0027/009(29)	"Collision-dominated vs Collisionless Modes in Trapped Bose Gases". Invited talk, U.S. Workshop on Bose-Einstein Condensation, Boulder, Colorado, July 29-31, 1996. Transparencies	1996
B2018-0027/009(30)	"BEC and Superfluidity in Liquids and Gases". Invited talk at European research Conference on Bose-Einstein Condensation, (BEC97), Castelveccchio Pascoli, Italy (July 12-17, 1997). Photocopies of transparencies, transparencies	1997
B2018-0027/009(31)	"A History of our Understanding of BEC: From Bose to Beliaev" Lecture I. Enrico Fermi summer school on Bose-Einstein condensation Varenna, Italy 7-17 July 1998. Transparencies	1998
B2018-0027/009(32)	Introductory speech for Walter Kohn, Neil Graham Lecture, University College, U of T	2000

File number	File title	Date range
B2018-0027/009(33)	"Dynamic structure factor for a trapped Bose gas at finite temperatures." Division of Atomic, Molecular and Optical Physics (DAMOP). London, Ontario. (May 18, 2001.) Photocopies of transparencies, notes [associated with S(q,w) notes, 2010]	2001
B2018-0027/009(34)	"Two-fluid hydrodynamics of trapped Bose Gases" (I & II) College de France, place Marcelin Berthelot, Paris. (November 20 & 27, 2001). Photocopies of transparencies, cover sheet	2001
B2018-0027/009(35)	Addresses: "Probing Correlation Functions in Trapped Bose Condensed Gases". 3rd & 4th of December, 2001, College de France, place Marcelin Berthelot, Paris. Cover sheet and photocopied transparencies	2001
B2018-0027/010(01)	"Two-Fluid Dynamics of a Trapped Bose-Condensed Gas" University of Otago, Dunedin, New Zealand. March 22, 2002. Transparencies	2002
B2018-0027/010(02)	"BEC and Coherent Matter Waves – An Overview" Physics Colloquium, University of Toronto, Toronto, Canada. December 5, 2002 (and Guelph Nov. 5, Trent Nov. 25). Poster, printed slides, printed transparencies	2002
B2018-0027/010(03)	<i>Superfluid Helium: The movie</i> by J. F. (Jack) Allen (1908-2001). Introduction by Allen Griffin. Text, transparencies	2002
B2018-0027/010(04)	"McLennan, Allen and Misener: Low temperature physics at Toronto 1920-1936 and the discovery of superfluidity." March Meeting 2004, March 22-26, 2004, Palais des Congrès de Montreal, Montreal, Quebec & University of Guelph, Guelph, Ontario March 30 th 2004, Abstract printout, PowerPoint slides printout, APS History of Physics Newsletter Spring 2004	2004
B2018-0027/010(05)	Introduction for Prof. Philippe Nozieres, award of Doctor of Science, Honoris Causa, University of Toronto, June 18 2004. Draft, with comments	2004

File number	File title	Date range
B2018-0027/010(06)	"Recent work on quasiparticle energy spectrum in a superfluid gas of Fermi atoms." LASSP Seminar, Cornell University, Ithaca, N.Y. October 26, 2004. Poster with abstract	2004
B2018-0027/010(07)	"BCS excitations in a superfluid gas of trapped Fermi atoms" UBC Physics and Astronomy Theory Seminar, University of British Columbia, January 10, 2005. Advertising poster with abstract	2005
B2018-0027/010(08)	"Ultracold matter: past and future" Opening talk at the 2005 Cold Atom Workshop in Taipei, National Taiwan Normal University, Taipei, Taiwan. (Nov. 4, 2005). Advertising poster	2005
B2018-0027/010(09)	With E. Taylor "Collisional hydrodynamic mode frequencies in the BCS-BEC crossover near unitarity", address at the March 2007 conference of the American Physical Society, Denver, Colorado, March 6, 2007. Abstract	2006
B2018-0027/010(10)	"The coupled dynamics of a condensate and the thermal cloud: the next big problem in ultracold atom physics" opening talk at Workshop on the Non-Equilibrium Behaviour in Superfluid Gases at Finite Temperatures. Sandbjerg, Denmark, (June 10-13, 2007). Manuscript	2007
B2018-0027/010(11)	"Elementary excitations and collective modes in superfluids: from Landau in 1941 to the BCS-BEC crossover", seminar at the BEC Center, CNR - Istituto Nazionale di Ottica and Dipartimento di Fisica, Università di Trento, Trento, Italy, Apr. 22, 2009. Correspondence, notes, drafts	2009
B2018-0027/010(12)	"The hydrodynamics of ultracold superfluid gases at finite temperatures." FINESSE, University of Durham, UK, Sept. 14-17, 2009. PowerPoint presentation	2009
B2018-0027/010(13)	"101 Years of Liquid Helium." University of Guelph, Guelph, Ontario. Nov. 10, 2009. Printout of PowerPoint presentation	2009

File number	File title	Date range
B2018-0027/010(14)	"Dynamic structure factor and second sound in superfluid gases". H. Hu, E. Taylor, X.-J. Liu, S. Stringari, A. Griffin. CIFAR, Montreal, May 2010. Poster associated with article Hu et al. NJP 2010	2010