



**Professor Carlos Frenk
Ogden Professor of Fundamental Physics
Durham University
UK**

Vice-Chancellor and Warden

SC/DB

24 January 2019

Consejo Cultural Mundial
A.Postal 10.1083
Col. Lomas de Chapultepec
C.P. 11002, Mexico, D.F.
Mexico

Dear Members of the Interdisciplinary Committee,

2019 Albert Einstein World Award of Science

It is my pleasure to nominate Professor Carlos Frenk FRS for the 2019 Albert Einstein World Award of Science.

One of the great advances in Physics over the past thirty years has been the development of a “standard model of cosmology”, the so-called “Lambda-CDM” theory, where “Lambda” stands for Einstein’s cosmological constant and CDM for “cold dark matter.” Theoretical predictions made in the 1980s and 1990s were spectacularly corroborated in the 2000s by measurements of the temperature structure of the cosmic microwave background radiation (the heat left over from the Big Bang) and of the clustering of galaxies in space. Carlos and his collaborators played a key role in formulating the predictions for the galaxy distribution. For this they introduced the then novel technique of cosmological simulations that has since become a standard, widely-used methodology in theoretical cosmology. Through his work, Carlos and his collaborators have done much to establish cold dark matter as the prime candidate for this, as yet unseen, but dynamically dominant, component of our Universe, encouraging extensive searches for the elementary particles that make up the dark matter. His 1997 paper, with Navarro and White, on the structure of the dark matter clumps in which galaxies form, is the most cited theoretical paper in astrophysics and cosmology of the last 30 years.

Carlos has had a major impact on world astronomy. He founded the Institute for Computational Cosmology (ICC) at Durham University, one of the largest and most successful theoretical cosmology groups. This leading centre for cosmological simulations has made major contributions to the modern view of how cosmic structure emerged from the near-uniform primordial soup of the Big Bang. Images and movies from the Virgo Consortium, which Carlos also founded and has led for more than a decade, have done much to shape both the public and the professional perception of how our Universe came to look the way it does, and how our own Milky Way was assembled over the last thirteen billion years.

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Professor Stuart Corbridge

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Carlos' leadership skills have been instrumental to the success of the ICC. His vision and enthusiasm have been key to attracting significant levels of funding and donations. He has played a major role in securing funding for two buildings that house the Ogden Centre for Fundamental Physics of which the ICC is part. The first, completed in 2002, was opened by the then Prime Minister, The Rt Hon Tony Blair. The second, designed by world-renowned architect Daniel Libeskind (whom Carlos introduced to Durham), was officially opened in March 2017. Over the years Carlos has generated grant funding to set up the ICC's computational infrastructure and staff appointments and has spearheaded efforts to obtain EU support for international collaborations. Most importantly, Carlos has worked tirelessly to maintain the ICC's high international visibility.

Carlos is extremely well known and respected internationally. He is one of the most highly cited astrophysicists in the world, having co-authored four of the top hundred most cited papers in astrophysics literature of all time (of over 900,000 papers). In Her Majesty the Queen's Birthday Honours in 2017, Carlos was made a Commander of the Order of the British Empire (CBE), for services to cosmology and the public dissemination of basic science. In the same year he was also awarded the prestigious Max Born Medal and Prize by the German Physical Society. He typically gives half a dozen review talks each year, at major international workshops and conferences, and is an exceptional ambassador for the field, frequently giving public addresses and regularly appearing in the media. Carlos has recently become Chair of the Royal Society Public Engagement Committee. He has raised the international profile of astronomy and assisted the careers of a generation of young researchers.

Carlos Frenk has dedicated his career to advancing our understanding of cosmology and astrophysics. His major contributions and breakthroughs in discovery and knowledge are internationally recognised and will stand the test of time. He is an eminent scientist whose achievements in scientific and technological research, in the promotion of science to the public, and in inspiring and training a large number of young scientists, have brought true benefit to mankind. He is at the pinnacle of his field and his many remarkable achievements make him a leading contender for the Albert Einstein World Award of Science. I am delighted to recommend to you, Professor Carlos Frenk, as our nominee for the World Cultural Council's 2019 Albert Einstein World Award of Science.

Yours faithfully,



Professor Stuart Corbridge
Vice-Chancellor and Warden

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21st January, 2019

Re: Nomination of C.S. Frenk for the 2019 Albert Einstein World Award of Science.

Carlos Frenk is the Ogden Professor of Fundamental Physics and Director of the Institute for Computational Cosmology at Durham University. He obtained his PhD in astrophysics at Cambridge and carried out postdoctoral work at the University of California, in Berkeley and Santa Barbara, and at the University of Sussex. He was appointed Lecturer in Physics at the University of Durham in 1985, became a Professor of Physics in 1993 and was appointed Ogden Professor in 2001, becoming the founding director of the ICC, a post he has occupied ever since. I have known Carlos since his student days and we have collaborated closely for over 40 years.

Frenk is one of the originators of the Cold Dark Matter (CDM) theory for the origin of galaxies and other cosmic structures. His series of papers with Davis, Efstathiou and White in the 1980's established that the CDM model can reproduce the observed large-scale distribution of galaxies in considerable detail. His papers with Navarro and White in the 1990's established that dark matter halos, the fundamental units of all nonlinear structure in a CDM universe, should have a "universal" density structure with properties that are sensitive to the material content of the Universe and to the process which created all structure in the Big Bang itself. Their predictions have now been verified through gravitational lensing and X-ray observations on all but the smallest scales. In recent years, Frenk and his Durham students and postdocs have concentrated on investigating whether the apparent small-scale discrepancies reflect the nature of the dark matter, the effects of the complex processes by which the visible components of galaxies form, or, possibly, the residual uncertainties in the interpretation of the observations. In a separate thread of work, his papers with his Durham group and their collaborators over the last 20 years have created a world-leading capability for simulating the formation of the galaxy population in a Λ CDM universe. Overall, Frenk has pioneered many of the developments which have resulted in the Λ CDM model becoming accepted as the standard paradigm for cosmic structure formation.

Frenk's research group carries out simulations of cosmic structure formation primarily using dedicated "Cosmology Machines" at Durham. Over several generations, these have been among the largest supercomputers in the UK. Since 1996 he has been the UK Principal Investigator of the Virgo Consortium, an international collaboration responsible for many of the largest and most sophisticated cosmological simulations in the world, notably the 2005 Millennium Simulation whose publicly released data have so far been used in more than 980 published research papers, and the Eagle Simulations which were presented in what is currently the most highly cited astrophysics paper of 2015. Frenk has also been heavily involved in the execution and analysis of large surveys of galaxies in our cosmic neighbourhood, notably the Anglo- Australian Two Degree Field Galaxy Redshift Survey. These are used to test the predictions of cosmological theory, in particular the predictions made by Frenk's simulations and his group's phenomenological galaxy formation models.

Carlos Frenk is responsible for all aspects of the success of Durham University's Institute for Computational Cosmology. He was instrumental in attracting the large donation which made it possible to build the Ogden Centre which houses the ICC, in having it opened by the Science Minister, in attracting the Prime Minister, Tony Blair, for an address on its anniversary, in obtaining the grants needed to set up its computational infrastructure and to staff it with young people, in persuading the University to assign staff and support positions, in spearheading successful efforts to obtain EU funding to support its international collaborations, and, most importantly, in working tirelessly to maintain its forefront scientific programme and its high international visibility. When this success caused the ICC to outgrow its accommodation in the Ogden Centre, Frenk again drummed up support to construct a new building, and secured a design from the world-famous architect, Daniel Libeskind. Now completed, this is perhaps the most striking piece of modern architecture in Durham.

Frenk has co-authored more than 450 refereed scientific papers which have received more than 110,000 citations (Google Scholar). Twenty of his papers have been cited more than 1,000 times, and one, with more than 8,000 citations, is the most highly cited theoretical astrophysics paper of the last thirty years. He was elected to the Royal Society in 2004, received the Gruber Cosmology Prize in 2011. and was awarded the Gold Medal of the Royal Astronomical Society in 2014. Frenk has also played an active role in disseminating astronomy and cosmology through the media. He gives frequent public lectures and, in addition to radio interviews, he has appeared on numerous TV programmes, from Sky at Night to Horizon and Newsnight. He and his Durham group have several times produced very successful stands for the Royal Society's Summer Exhibition. He was awarded a CBE for his outreach work in 2018. This is an extraordinary body of work, contributing at the very highest level to all aspects of our field.

Yours sincerely,



Simon D.M. White, Director, Max Planck Institute for Astrophysics



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21st January 2019

Dear Members of the Nomination Committee

I am pleased to write in enthusiastic support of Carlos Frenk's nomination for the Einstein award. I have interacted with him extensively on matters of science policy, education and outreach via my role as President of the Royal Society (2005-10) and as Astronomer Royal. Moreover, I have known him since the 1970s, when he came from Mexico to become a Research Student in Cambridge; and my own research interests are sufficiently close to his that I have followed his scientific progress closely ever since.

Let me comment first on his research. One of the growth points in current astronomy – indeed one of the highlights of physical science generally – is the delineation of how the structure of our universe originated and evolved. These advances have come about through a combination of improved detection techniques for faint objects, combined with the rapidly advancing processing power of computers. Telescopes are now able to provide large samples of galaxies with redshifts beyond 3, as well as morphological data on galaxies and clustering at all intermediate redshifts. Also, other lines of evidence (especially CMB anisotropies) have dramatically firmed up our knowledge of initial fluctuations, and the proportions of baryons and dark matter in the universe. These can be used as the starting point for theoretical models of galaxy formation, and elaborate numerical simulations. As numerous recent conferences testify (and Carlos contributes prominently to almost all of them), this is one of the most rapidly advancing fields in our sciences.

Carlos Frenk is an acknowledged leader in this subject, not only within the UK but throughout the world. He was in the 1980s one of the pioneers in investigating the cold dark matter (CDM) model – now the 'standard paradigm' in cosmology. Along with two outstanding colleagues, Simon White in Munich and George Efstathiou in Cambridge, he managed to ensure that this is an area where

leadership comes from this side of the Atlantic. These three were (with the US scientist Marc Davis) awarded the Gruber Prize – a major (\$500k) international prize which is also very prestigious.

Carlos Frenk has achieved outstanding impact and credentials for his individual research. He is author or co-author of many of the most influential recent papers aiming to understand how galaxies formed, how they evolve, and how they are grouped into clusters. This work involves numerical simulations, plus the use of large data-samples gained by optical astronomers, plus measurements of cosmic x-rays and gamma-rays gas (made from orbiting satellites).

Even if one grants all the inadequacies of bibliometric data, it certainly counts for something that his work during the last decade led to his being one of the most cited UK authors in any of the physical sciences – and his efforts are utterly unflagging. At least equally important, however, has been his contribution as an inspiring leader. He has nurtured, attracted and retained an extraordinarily high-quality group of younger colleagues. The fact that the international profile of Durham Astrophysics is extremely high, despite its resources being modest compared with leading centres in the US or mainland Europe, is in large measure due to Carlos Frenk's personality and intellectual leadership. His efforts were pivotal in securing the combination of private and government funds which have enabled Durham to set up the Ogden Centre for Computational Physics and Astrophysics. After ten successful years, he developed grander ambitions to expand it – these have succeeded, and it is testimony to his charisma that he persuaded Libeskind to design the very fine new building in which his research group is housed.

Carlos is an international leader. As I have already mentioned, he works in an area where the UK is especially strong; he has a high profile in his subject world-wide, not just parochially in the UK. He has a dynamic and constructive influence on the international astronomical scene by focusing on really important problems, relating closely to observers, and having the stamina to pursue large-scale and long-term projects. His achievements will certainly rank high when the history of astronomy in this decade is written.

He is in great demand as a member of international advisory bodies. And in the UK he has done extensive service on Research Council committees, and for the Royal Society (on whose Council he has recently and energetically served). Moreover, he has been immensely successful in interacting with the general public. He is a superb lecturer and broadcaster, and the 3-D movie based on his group's simulations have been a highlight of the Royal Society's summer exhibition in recent years. (And his recent appearance on the iconic BBC programme 'Desert Island Discs' was specially acclaim worthy).

I think (being myself a former awardee) that I have a 'feel' for the criteria that your committee takes into account in making your award. These criteria obviously include individual research distinction, organisational leadership, and educational/public prominence. I find it hard to think of others who tick all these boxes as strongly as Carlos Frenk. And that is why I believe his services to Durham, to the world of science, and to his adopted country deserve high recognition internationally.

A handwritten signature in blue ink that reads "Martin Rees". The signature is fluid and cursive, with the first name "Martin" and the last name "Rees" clearly distinguishable.

Martin Rees
(Lord Rees of Ludlow, OM, FRS)
Astronomer Royal

RESUME OF ACHIEVEMENTS

Professor Carlos Frenk FRS

He is Mexican-British cosmologist with primary interests in the field of cosmology, galaxy formation and computer simulations of cosmic structure formation. He is the Ogden Professor of Fundamental Physics and founding Director of the Institute for Computational Cosmology at Durham University, UK.

Carlos Frenk was born in Mexico City in 1951, the son of a Mexican pianist and chemist and a German doctor who had fled to Mexico as a child before World War Two. He gained the top marks in his class in the Physics degree at the National Autonomous University of Mexico in 1976. He obtained his PhD in Astrophysics at Cambridge University and carried out postdoctoral work at the University of California, in Berkeley and Santa Barbara, and at the Universities of Sussex and Cambridge. He was appointed Lecturer in Physics at the University of Durham in 1985, became Professor of Physics in 1993 and was appointed Ogden Professor in 2001. He was elected a Fellow of the Royal Society in 2004 and was one of the recipients of the \$500,000 Gruber Prize in Cosmology in 2011.

Carlos Frenk is one of the originators of the Cold Dark Matter theory for the origin of galaxies and other cosmic structures. His series of papers with Davis, Efstathiou and White in the 1980's established that the Cold Dark Matter model could reproduce the observed abundance and large-scale distribution of galaxies in considerable detail. His papers with Navarro and White in the 1990's established that dark matter halos, the fundamental units of all nonlinear structure in the Universe, should have a universal density structure. This has since been verified through gravitational lensing and X-ray observations of galaxy groups and clusters and has become the standard model of dark matter halo structure. His more recent papers with his Durham group (Cole, Lacey, Baugh and others) over the last 15 years have created a world-leading capability for predicting the observable properties of galaxies in a Cold Dark Matter universe. Overall, Frenk has pioneered many of the developments that have resulted in the Cold Dark Matter model becoming accepted as the standard paradigm for cosmic structure formation. His many other contributions to cosmology include the execution and analysis of large galaxy redshift surveys, most recently the Anglo-Australian Two Degree Field Redshift Survey.

Carlos Frenk is also responsible for the creation of the Institute for Computational Cosmology at Durham University, which he has directed since its foundation and has become a world-leading Centre for supercomputer simulations of cosmic structure formation. He and his research group carry out large cosmological simulations of the evolution of the Universe using the 'Cosmology Machine' at Durham University, one of the largest supercomputers in the UK. Since 1996 he has been the Principal Investigator of the Anglo-German 'Virgo Consortium', an international collaboration responsible for the largest and most sophisticated cosmological simulations in the world. He is also involved in the execution and analysis of large surveys of galaxies in our cosmic neighborhood that are used to test the predictions of cosmological theory.

During his illustrious career to date, Carlos has received many honors, distinctions and awards in recognition of his achievements. In the past ten years alone, he has received the: Max Born Prize German Physical Society (2017), the Gold medal of the Royal Astronomical Society (2014); Oort Professorship, Leiden, Netherlands (2014); Alexander von Humboldt Research Award (2013); The Gruber Cosmology Prize

(2011); Hoyle Medal and Prize, Institute of Physics (2010); George Darwin prize, Royal Astronomical Society (2010). He was made a Commander of the British Empire (CBE) in the 2017 Queen's birthday list.

Carlos Frenk currently has over 450 publications in the refereed scientific literature that have accrued a total of more than 86,000 citations. His H-index is currently 131, one of the highest in the world. Fourteen of his papers have more than 1000 citations. The following include some of his most highly cited work:

- A Universal Density Profile from Hierarchical Clustering, ApJ 490,493 (1997) 6500+ *cits*
- The Structure of Cold Dark Matter Halos, ApJ 462, 563 (1996) 5000+ *cits*
- Simulations of the formation, evolution and clustering of galaxies , Nature 435,629(2005) 2950+ *cits*
- The evolution of large-scale structure in a universe dominated by CDM, ApJ 292,371 (1985) 2350+ *cits*
- The many lives of active galactic nuclei, MNRAS 365,11 (2006) 2440+ *cits*
- Breaking the hierarchy of galaxy formation MNRAS 370,645 (2006) 1680+ *cits*
- Galaxy formation through hierarchical clustering ApJ, 379, 52 (1991) 1660+ *cits*
- The 2dF Galaxy Redshift Survey: spectra and redshifts, MNRAS 328m 1620 (2001) 1460+ *cits*
- Hierarchical galaxy formation MNRAS 319, 168 (2000) 1400+ *cits*
- The EAGLE project: simulating the evolution and assembly of galaxies and their environments MNRAS 446, 521 (2015) 1000+ *cits*

Carlos Frenk's drive, determination, and commitment to his field have underpinned his ability to raise significant levels of funding from both national (e.g. Research Councils) and international (e.g. EU) sources. Such funding, in the order of several tens of millions of pounds, has allowed him to extend his research, train a new generation of scientists, and invest in infrastructure. Large amounts of capital have been raised on the back of Frenk's achievements from philanthropic organizations leading to the construction of two new buildings dedicated to astrophysics and cosmology, including a landmark building designed by world-renowned architect, Daniel Libeskind.

Carlos Frenk is a devoted teacher. He has delivered various undergraduate and postgraduate courses in Physics and Astrophysics. He has trained over 39 PhD students and over 39 postdoctoral research assistants, the majority of whom have subsequently gone on to establish successful research careers in astronomy, often in highly prestigious posts. Frenk is a true inspiration to the field.

Carlos Frenk also dedicates a significant amount of time and effort to ensure that the outcome and impact of his work are shared and understood, particularly in the broader application and public understanding. He plays an active role in the dissemination of astronomy and cosmology through the media on both the national and international stages. He gives frequent public lectures and, in addition to radio interviews, he has appeared on numerous TV programmes, from the BBC's Sky at Night to Horizon and Newsnight, and on international TV channels around the world. He and his Durham group have produced celebrated movies of the evolution of the cosmos which have been shown around the world including at the Royal Society's Summer Science Exhibition in London. Since 2019 he is the Chair of the Royal Society Public Engagement Committee.

Curriculum Vitae: Carlos S. Frenk

(January 2019)

Personal Details:

Name: Carlos S. Frenk **Nationality:** British & Mexican

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University of Durham (44 191) 3343645 (fax)
Durham DH1 3LE, England C.S.Frenk@durham.ac.uk

Academic Record:

Dates	Degree	Place
1977-1981	PhD (Astronomy)	University of Cambridge
1976-1977	Maths Tripos Part III (Honours)	University of Cambridge
1972-1976	BSc Theor. Phys. (Top marks in year)	University of Mexico

Employment:

Dates	Position	Institution
2001-present	Director, Institute for Computational Cosmology	University of Durham
2001-present	Ogden Professor of Fundamental Physics	University of Durham
1985-present	Lecturer, Reader (1991), Professor (1993)	University of Durham
1983-1985	Postdoctoral Research Fellow	University of Sussex
1983-1985	Assistant Research Physicist	University of California, Sta. Barbara
1981-1983	Postdoctoral Research Fellow	University of California, Berkeley

Fellowships, awards and distinctions:

Year	
2017	Commander of the Order of the British Empire (CBE)
2017	Max Born Prize German Physical Society (DPG)
2014	Oort Professorship, Leiden Observatory, the Netherlands
2014	Gold medal, Royal Astronomical Society
2013	Alexander von Humboldt Research Award
2013	Lansdowne Visitor, UVic, Canada
2013	The Biermann Lectures, Max Planck Society
2011	The Gruber Cosmolgy Prize (\$500,000, jointly w. M. Davis, G. Efstathiou, S. White)
2010	Hoyle Medal and Prize, Institute of Physics
2010	George Darwin prize, Royal Astronomical Society
2007	Daniel Chalonge medal, Observatoire de Paris
2006	Royal Society Wolfson Research Merit award
2006	The Withrow lecture, Royal Astronomical Society
2004	Elected Fellow of the Royal Society
2004	Ranked 2 th most cited author in Space Sciences in the world in the past 10 years.
2002	Ranked 5 th most cited physical scientist in UK since 1980
2000-2001	Leverhulme Research Fellowship
2000	Ranked 16 th most cited physical scientist in the UK during the 1990s
1996-1999	PPARC Senior Fellowship
1992-1993	Sir Derman Christopherson Fellowship, University of Durham
1991-1992	Nuffield Foundation Science Research Fellowship
1985	SERC Advanced Fellowship (declined)
1976-1979	British Council Fellowship
1976	<i>Gabino Barreda</i> medal for first place in Theor. Phys. degree

Publications and citations smallskip

- Over 450 papers in the refereed scientific literature.
- Over 86,000 citations (H-index 131): one of most cited authors in space science in the world.
- Author of 4 of the 100 most cited papers ever published in astronomy and space science (out of a total of over 900,000).
- Delivered 233 invited talks at major international conferences.
- Supervised 39 PhD students (34 graduated so far) and 39 postdoctoral researchers, many of whom have gone on to influential positions in industry and academia around the world.
- Included in “The world’s most influential scientific minds, 2015”, a list of 3000 highly cited researchers (compiled by Thomson Reuters).

Research grants and other income

- Since 1985, research grants totalling £63.6 million (in 2017 pounds) as PI. Of this £51.5 million has come from UK sources (Research Councils, Royal Society, etc) and £12.1 million from the EU.
- Raised £7,370,000 from philanthropic organizations (for two new buildings and PhD studentships).

Academic leadership

- Helped build up astronomical research at Durham, with the group growing from fewer than 10 astronomers and astrophysicists when I arrived in 1985 to over 150 today.
- Founded the Institute for Computational Cosmology (ICC) in 2002. Head of the precursor “Theory Group” until 2002 and ICC Director since then. The ICC has become one of the leading institutions in the world engaged on research on the structure of the Universe. It employs over 50 scientists and technicians who build model universes using powerful supercomputers with the aim of understanding how our Universe evolved from simple beginnings to its present day complexity characterized by myriads of stars and galaxies.
- Led two major fundraising campaigns (from philanthropic organizations, Government and Durham University) for the construction of two buildings at Durham to house the ICC and the Institute for Particle Physics Phenomenology. The first, during 1998-2000 (with M. Pennington and J. Sterling), was for the Ogden Centre East building and the second, during 2012-2014 (with M. Ward), for the Ogden Centre West. Introduced world-renowned architect Daniel Libeskind to Durham, and this led to his successful bid for the design of the second building which was opened in March 2017.

Public outreach

- Initiated (with J. Sterling and I. Smail) a programme of public outreach through which tens of thousands of school children in the Northeast have been exposed to contemporary ideas about the Big Bang and the evolution of the Universe.
- Delivered 84 public lectures, including 13 named lectures.
- Appeared on TV in numerous occasions: 28 times BBC (Horizon, Sky at night, news, etc), 11 times other UK channels (Channel 4, ITV, etc) and 14 times foreign channels (USA, Germany, France, Spain, Argentina, Australia, Japan, Mexico). Appeared on radio on 55 occasions, including 38 on BBC radio and on several foreign stations (Canada, Argentina, Spain, Mexico, China).

Committees

- Served on 11 Research Council committees, 9 Royal Society committees (including Council during 2012-15) and five foreign committees, including the Kavli Prize for Astrophysics selection panel. Currently, Chair of the Royal Society Public Engagement Committee.

Recent research grants

Dates	Title	Awarding Body	Amount (£)
2008-2013	The Formation of Cosmic Structure (rolling grant)	STFC	3,105,567
2009-2012	High Performance Computing: Virgo	STFC	1,654,047

2009-2013	Cosmocomp Initial Training Network	EU	3,465,385
2011-2014	Visiting Fellows at Durham	STFC	90,531
2011-2015	Latin Am., China, Eur. Gal. Form. Network	EU	202,217
2011-2016	ERC Advanced Investigator Grant From the Milky Way to the large-scale structure	Euro. Res. Council	1,935,800
2011-2015	The Formation of Cosmic Structure (rolling grant)	STFC	2,639,340
2012-2016	The Durham DiRAC-2 petascale facility	STFC	3,700,000
2014-2017	Durham Consolidated Grant £7.4M (all Durham)	STFC	2,634,040 (ICC)
2015-2018	Newton Advanced Fellowship	Royal Society	111,000
2017-2018	The Durham DiRAC-2.5x Memory Intensive	STFC	2,128,952
2017-2020	Durham Consolidated Grant £7.4M (all Durham)	STFC	2,200,000 (ICC)
2017-2020	The Durham DiRAC-2.5 Operations	STFC	567,548
2018-2023	ERC Advanced Investigator Grant (The identity of the dark matter)	Euro. Res. Council	€2,493,439

Recent invited lectures at major international conferences

Date	Conference	Lecture/review
2017	The low surface brightness universe, London	Predictions for LCDM
2017	Origin and evol. of baryonic halos, Galapagos	Identification of the dark matter from the MW halo
2017	IOP HEPP meeting, Sheffield	The identity of dark matter is written on the sky
2017	German Physics Society, Muenster	Identify of dark matter from local neighbourhood
2017	The Galaxy-halo connection Sta. Barbara	CDM and the small-scale structure
2017	Advances in theoretical cosmology, Stockholm	How to rule out cold dark matter
2017	The Milky Way and its environments, Vietnam	How to rule out cold dark matter
2017	Piercing the sphere of influence, Cambridge	AGN and the curious case of the Milky Way
2017	Topical workshop on dark matter, Singapore	A conclusive test of cold dark matter
2017	HEP Forum: Cosmology, Gravit., Particle Phys.	Dark matter simulations
2018	Have sterile neutrinos been discovered? Leiden	The way forward
2018	Comp. Gal. Form, Ringberg Castle, Germany	Cores or cusps?
2018	Dark matter, dawn of discovery?, Heidelberg	The status of cold dark matter
2018	Particle, Astroparticle and Cosmology, Tallinn	A definitive test of cold dark matter
2018	Patras w/s Axions, Wimps and Wisps, Hamburg	The status of the Lambda Cold Dark Matter model
2018	The Phys. of Gal. Scaling, Kingston	A conclusive test of cold dark matter
2018	Halo Substructure & DM Searches, Madrid,	Tests of Λ CDM with subhalos
2018	DM: paradigm confirmation or shift, Sta Barbara	The cold dark matter model
2018	Stellar halos across the cosmos, Heidelberg	The imprint of cosmic reionization in Milky Way halo

Named public lectures

Date	Event	Lecture
2003	The Hoyle Memorial lecture, Leeds	The Big Bang
2006	The Elizabeth Spreadbury Lecture, UCL, London	Building the universe
2006	The Withrow Lect. of the Roy Astr Soc., London	Our implausible universe
2007	The O'Neill Lecture, Glasgow	Our implausible universe
2008	The 2008 Dundee Christmas Lecture, Dundee	Our implausible universe
2009	The Cosmocaixa Lecture, Barcelona	Simulant l'univers
2010	The Roy Astr. Soc Darwin Lecture, Glasgow	The small-scale struc of the Univ.
2012	The Guy Fawkes Phys. Lect., St. Peter Sch., York	Cosmic history
2013	The Lansdowne Lecture, U of Victoria, Canada	Everything from nothing
2015	The 2nd Wetton Lecture, Oxford Univ.	How our universe was made
2015	The Oort Lecture, Leiden Univ.	Cosmic origins
2018	Alfred Curtis Lecture, BAA, Winchester,	The making of our Universe

Carlos Frenk (ten most important papers)

Schaye J, Crain RA, Bower RG, Furlong M, Schaller M, Theuns T, Dalla Vecchia C, **Frenk CS**, McCarthy IG, Helly JC, Jenkins A, Rosas-Guevara YM, White SDM, Baes M, Booth CM, Camps P, Navarro JF, Qu, Y, Rahmati A, Sawala T, Thomas PA, Trayford J. **The EAGLE project: simulating the evolution and assembly of galaxies and their environments** (2015) Monthly Notices of the Royal Astronomical Society 446: 521-554

Cole S, Percival WJ, Peacock JA, Norberg P, Baugh CM, **Frenk CS**, Baldry I, Bland-Hawthorn J, Bridges T, Cannon R, Colless M, Collins C, Couch W, Cross NJG, Dalton G, Eke VR, De Propris R, Driver SP, Efstathiou G, Ellis RS, Glazebrook K, Jackson C, Jenkins A, Lahav O, Lewis I, Lumsden S, Maddox S, Madgwick D, Peterson BA, Sutherland W, Taylor K. **The 2df Galaxy Redshift Survey: power-spectrum analysis of the final data set and cosmological implications** (2005) Mon. Not. R. Astron. Soc. 362, 505-534

Springel V, White SDM, Jenkins A, **Frenk CS**, Yoshida N, Gao L, Navarro J, Thacker R, Croton D, Helly J, Peacock J A, Cole S, Thomas P, Couchman H, Evrad A, Colberg J, Pearce F. **Simulations of the formation, evolution and clustering of galaxies and quasars** (2005) Nature 03597/doi:10.1038 Vol 435

Jenkins A, **Frenk CS**, White SDM, Colberg JM, Cole S, Evrad AE, Couchman HMP, Yoshida N. **The Mass function of Dark Matter Haloes** (2001) Mon. Not. R. Astron. Soc. 321, 372-384

Navarro JF, **Frenk CS**, White SDM. **A Universal Density Profile from Hierarchical Clustering** (1997) The Astrophysical Journal 490:493-508

Navarro JF, **Frenk CS**, White SDM. **The Structure of Cold Dark Matter Halos** (1996) The Astrophysical Journal 462:563-575

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