

IDENTIFYING INFORMATION:

NAME: Casey, Andrew

ORCID iD: <https://orcid.org/0000-0002-1996-1405>

POSITION TITLE: Professor in Physics

PRIMARY ORGANIZATION AND LOCATION: Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom**Professional Preparation:**

ORGANIZATION AND LOCATION	DEGREE (if applicable)	RECEIPT DATE	FIELD OF STUDY
Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom	PHD	09/2001	Physics
Reading University , Reading, Not Applicable, N/A, United Kingdom	MS	07/1997	Physics

Appointments and Positions

2024 - present Professor in Physics, Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom

2016 - 2024 Reader, Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom

2012 - 2016 Lecturer, Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom

2007 - 2012 EPSRC Advanced Research Fellow, Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom

2001 - 2007 Post-Doctoral Research Associate, Royal Holloway, University of London, Egham, Not Applicable, N/A, United Kingdom

Products**Products Most Closely Related to the Proposed Project**

1. Lucas M, Danilov A, Levitin L, Jayaraman A, Casey A, Faoro L, Tzalenchuk A, Kubatkin S, Saunders J, de Graaf S. Quantum bath suppression in a superconducting circuit by immersion cooling. Nature Communications. 2023 June 14; 14(1):- . Available from: <https://www.nature.com/articles/s41467-023-39249-z> DOI: 10.1038/s41467-023-39249-z
2. Nyéki J, Lucas M, Knappová P, Levitin L, Casey A, Saunders J, van der Vliet H, Matthews A. High-Performance Cryogen-Free Platform for Microkelvin-Range Refrigeration. Physical Review Applied. 2022 October 24; 18(4):- . Available from: <https://link.aps.org/doi/10.1103/PhysRevApplied.18.L041002> DOI: 10.1103/PhysRevApplied.18.L041002
3. Levitin L, van der Vliet H, Theisen T, Dimitriadis S, Lucas M, Corcoles A, Nyéki J, Casey A, Creeth G, Farrer I, Ritchie D, Nicholls J, Saunders J. Cooling low-dimensional electron systems

into the microkelvin regime. Nature Communications. 2022 February 03; 13(1):- Available from: <https://www.nature.com/articles/s41467-022-28222-x> DOI: 10.1038/s41467-022-28222-x

4. Autti S, Casey A, Eng N, Darvishi N, Franchini P, Haley R, Heikkinen P, Jennings A, Kemp A, Leason E, Levitin L, Monroe J, March-Russel J, Noble M, Prance J, Rojas X, Salmon T, Saunders J, Smith R, Thompson M, Tsepelin V, West S, Whitehead L, Zavjalov V, Zmeev D. QUEST-DMC superfluid ^3He detector for sub-GeV dark matter. The European Physical Journal C. 2024 March 08; 84(3):- Available from: <https://link.springer.com/10.1140/epjc/s10052-024-12410-8> DOI: 10.1140/epjc/s10052-024-12410-8
5. Autti S, Casey A, Eng N, Darvishi N, Franchini P, Haley R, Heikkinen P, Kemp A, Leason E, Levitin L, Monroe J, March-Russel J, Noble M, Prance J, Rojas X, Salmon T, Saunders J, Smith R, Thompson M, Tsepelin V, West S, Whitehead L, Zhang K, Zmeev D. QUEST-DMC: Background Modelling and Resulting Heat Deposit for a Superfluid Helium-3 Bolometer. Journal of Low Temperature Physics. 2024 May 15; 215(5-6):465-476. Available from: <https://link.springer.com/10.1007/s10909-024-03142-w> DOI: 10.1007/s10909-024-03142-w

Other Significant Products, Whether or Not Related to the Proposed Project

1. Heikkinen P, Levitin L, Rojas X, Singh A, Eng N, Casey A, Saunders J, Vorontsov A, Zhelev N, Sebastian A, Parpia J. Chiral Superfluid Helium-3 in the Quasi-Two-Dimensional Limit. Physical Review Letters. 2025; 134(13):- Available from: <https://link.aps.org/doi/10.1103/PhysRevLett.134.136001> DOI: 10.1103/PhysRevLett.134.136001
2. Heikkinen P, Casey A, Levitin L, Rojas X, Vorontsov A, Sharma P, Zhelev N, Parpia J, Saunders J. Fragility of surface states in topological superfluid ^3He . Nature Communications. 2021 March 10; 12(1):- Available from: <https://www.nature.com/articles/s41467-021-21831-y> DOI: 10.1038/s41467-021-21831-y
3. Shibahara A, Hahtela O, Engert J, van der Vliet H, Levitin L, Casey A, Lusher C, Saunders J, Drung D, Schurig T. Primary current-sensing noise thermometry in the millikelvin regime. Philosophical Transactions of the Royal Society A: Mathematical, Physical and Engineering Sciences. 2016 March 28; 374(2064):20150054-. Available from: <https://royalsocietypublishing.org/doi/10.1098/rsta.2015.0054> DOI: 10.1098/rsta.2015.0054
4. Batey G, Casey A, Cuthbert M, Matthews A, Saunders J, Shibahara A. A microkelvin cryogen-free experimental platform with integrated noise thermometry. New Journal of Physics. 2013 November 15; 15(11):113034-. Available from: <https://iopscience.iop.org/article/10.1088/1367-2630/15/11/113034> DOI: 10.1088/1367-2630/15/11/113034
5. Levitin L, Bennett R, Casey A, Cowan B, Saunders J, Drung D, Schurig T, Parpia J. Phase Diagram of the Topological Superfluid ^3He Confined in a Nanoscale Slab Geometry. Science. 2013 May 17; 340(6134):841-844. Available from: <https://www.science.org/doi/10.1126/science.1233621> DOI: 10.1126/science.1233621

Certification:

I certify that the information provided is current, accurate, and complete. This includes but is not

limited to information related to domestic and foreign appointments and positions.

I also certify that, at the time of submission, I am not a party to a malign foreign talent recruitment program.

Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§ 3729-3733 and 3802.

Certified by Casey, Andrew in SciENcv on 2025-11-06 16:07:54