List of Invited Talks –	Alan	Matthew	Thompson
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Conferences and Workshops	•	<i>Pseudolattices, degenerations, and fibrations of K3 surfaces,</i> short research talk given at the British Mathematical Colloquium 2023, University of Bath, April 2023.
	•	Type II degenerations of K3 surfaces, pseudolattices, and mirror symmetry, research talk given at the "Explicit Moduli Problems in Higher Dimensions" conference, Banff International Research Station, March 2023.
	•	The mirror Clemens-Schmid sequence, research talk given at the "3CinG Annual Congress" conference, University of Warwick, September 2021.
	•	<i>Mirror symmetry for fibrations and degenerations</i> , research talk given at the 2020 CMS Winter Meeting, online, December 2020.
	•	K3-fibred threefolds and elliptic surfaces, research talk given at the "Workshop on Elliptic Fibred CY 3-Folds and their Singularities", University of Warwick, February 2020.
	•	Compactifications of the moduli space of K3 surfaces of degree 2, research talk given at the summer school on "Moduli and Stability Conditions", Leibniz Universität Hannover, August 2019.
	•	<i>Pseudolattices and homological mirror symmetry</i> , research talk given to the "Recent Developments in Higgs theory" conference, Higher School of Economics, Moscow, October 2018.
	•	<i>Pseudolattices and mirror symmetry</i> , research talk given to the "Classification, Compu- tation, and Construction: New Methods in Geometry" workshop, University of Warwick, October 2018.
	•	<i>ADE surfaces</i> , research talk given to the "Young Perspectives in Algebraic Geometry" conference, Universität Bayreuth, March 2018.
	•	<i>Mirror symmetry for lattice polarized del Pezzo surfaces</i> , research talk given to the "Mirror Symmetry and Applications" conference, Higher School of Economics, Moscow, December 2017.
	•	Anticanonical pairs with involution, poster presented at the 3rd British Algebraic Geometry meeting, University of Cambridge, September 2017.
	•	<i>Mirror symmetry for lattice polarized del Pezzo surfaces</i> , research talk given at the 3 C in G group meeting, University of Warwick, May 2017.
	•	K3-fibred Calabi-Yau threefolds and mirror symmetry, research talk given at the open- ing meeting of the "Classification, Computation, and Construction: New Methods in Geometry" program, University of Warwick, October 2016.
	•	Calabi-Yau threefolds fibred by lattice polarized K3 surfaces, research talk given to the retrospective workshop for the 2013 Fall Thematic Program on "Calabi-Yau Varieties: Arithmetic, Geometry and Physics", Herstmonceux Castle, United Kingdom, June 2016.
	•	<i>Mirror symmetry for fibrations and degenerations</i> , research talk given to the Winter 2016 Workshop on Algebraic Varieties, Fields Institute, Toronto, March 2016.
	•	<i>Elliptic surfaces and K3-fibred threefolds</i> , research talk given to the Weekend Workshop on Algebraic Varieties, Fields Institute, Toronto, November 2015.
	•	Towards a compactification of the moduli space of K3 surfaces of degree two, research talk given to the "Moduli Spaces and Enumerative Geometry" conference, IMPA, Rio de Janeiro, April 2015.
	•	Towards a compactification of the moduli space of K3 surfaces of degree two, research talk given to the Weekend Workshop on Algebraic Varieties, Fields Institute, Toronto, March 2015.

- Degenerations of plane sextics, short research talk given to the 2014 CMS Winter Meeting, Hamilton, Canada, December 2014.
- Moduli of Calabi-Yau threefolds fibred by lattice polarized K3 surfaces, research talk given to the Weekend Workshop on Algebraic Varieties, Fields Institute, Toronto, November 2014.
- Calabi-Yau threefolds fibred by Kummer surfaces, research talk given to the "Calabi-Yau Manifolds and their Moduli" conference, University of Alberta, June 2014.
- The arithmetic/thin dichotomy for Calabi-Yau threefolds and families of K3 surfaces, short research talk given to the 2014 AMS Southeastern Spring Sectional Meeting, University of Tennessee, Knoxville, March 2014.
- Families of lattice polarized K3 surfaces with monodromy, short research talk given to the 2013 CMS Winter Meeting, Ottawa, Canada, December 2013.
- Variations of Hodge structure and the period map, introductory talk for graduate students given at the concentrated graduate course preceding the workshop on "Hodge Theory in String Theory", Fields Institute, Toronto, November 2013.
- *Moduli of K3 surfaces*, introductory talk for graduate students given at the concentrated graduate course preceding the Workshop on "Modular Forms around String Theory", Fields Institute, Toronto, September 2013.
- From K3 to CY3, research talk given to the introductory summer school on "Calabi-Yau Varieties: Arithmetic, Geometry and Physics", Fields Institute, Toronto, August 2013.
- The 14th case VHS and K3 fibrations: elliptic surfaces, short research talk given to the 2012 CMS Winter Meeting, Montréal, Canada, December 2012.
- Degenerations of K3 surfaces of degree two, research talk given to the workshop on "Hodge Theory and String Duality", Banff International Research Station, December 2011.
- Degenerations of K3 surfaces of degree two, research talk given to the workshop on "Arithmetic and Geometry of K3 surfaces and Calabi-Yau threefolds", Fields Institute, Toronto, August 2011.
- Models for threefolds fibred by K3 surfaces of degree two, short research talk given to the Géométrie Algébrique en Liberté XIX conference, Freie Universität Berlin, July 2011.
- Models for threefolds fibred by K3 surfaces of degree two, short research talk given to the Young Researchers in Mathematics conference, University of Warwick, April 2011.
- The construction of ample $\langle 2 \rangle$ -polarised K3-fibrations, short research talk given to the Young Researchers in Mathematics conference, University of Cambridge, April 2009.
- Pseudolattices, degenerations, and fibrations of K3 surfaces, research talk given to the Sheffield algebraic geometry seminar, University of Sheffield, May 2023.
 - Pseudolattices, degenerations, and fibrations of K3 surfaces, research talk given to the Washington University in St. Louis algebraic geometry seminar, Washington University in St. Louis, April 2023.
 - *Pseudolattices, geometry, and mirror symmetry*, general interest talk given to the Bard College mathematics seminar, Bard College, April 2023.
 - The mirror Clemens-Schmid sequence, research talk given to the K-theory, algebraic cycles and motivic homotopy theory seminar, Isaac Newton Institute, Cambridge, July 2022.
 - The mirror Clemens-Schmid sequence, research talk given to the More Algebraic Geometry at Imperial College (MAGIC) seminar, Imperial College London, June 2022.

- Mirror symmetry: the great mathematical story you've (probably) never heard..., general interest talk given to the Loughborough mathematics student seminar, Loughborough University, December 2021.
- *The mirror Clemens-Schmid sequence*, research talk given to the Oxford algebraic and symplectic geometry seminar, University of Oxford, October 2021.
- The mirror Clemens-Schmid sequence, research talk given to the CMSA algebraic geometry in string theory seminar, Harvard University, September 2021.
- *The mirror Clemens-Schmid sequence*, research talk given to the Loughborough geometry and mathematical physics seminar, Loughborough University, May 2021.
- The mirror Clemens-Schmid sequence, research talk given to the Washington University in St. Louis online geometry seminar, Washington University in St. Louis, May 2021.
- The many faces of mirror symmetry, general interest talk given to the Loughborough mathematical reviews seminar, Loughborough University, February 2021.
- *Mirror symmetry for fibrations and degenerations*, research talk given to the Cardiff online geometry seminar, Cardiff University, December 2020.
- *Mirror symmetry for fibrations and degenerations*, research talk given to the Loughborough geometry and mathematical physics seminar, Loughborough University, October 2020.
- *Mirror symmetry for fibrations and degenerations*, research talk given to the "FanoSearch" online algebraic geometry seminar, October 2020.
- *Mirror symmetry for fibrations and degenerations*, research talk given to the "ZAG" Zoom Algebraic Geometry online seminar, September 2020.
- Threefolds fibred by sextic double planes, research talk given to the Nottingham online algebraic geometry seminar, University of Nottingham, May 2020.
- Compactifications of the moduli space of K3 surfaces of degree 2, research talk given at the Séminaire Méditerranéen de Géométrie Algébrique, Université Paul Sabatier, Toulouse, October 2019.
- Pseudolattices, del Pezzo surfaces, and fibrations over discs, research talk given to the Loughborough geometry and mathematical physics seminar, Loughborough University, February 2019.
- *ADE surfaces*, research talk given to the London geometry and topology seminar, Imperial College London, February 2019.
- Pseudolattices, del Pezzo surfaces, and fibrations over discs, research talk given to the Liverpool algebraic geometry seminar, University of Liverpool, January 2019.
- *Hilbert's 15th problem, curve counting, and mirror symmetry*, general interest talk given to the Loughborough mathematical reviews seminar, Loughborough University, November 2018.
- *ADE surfaces*, research talk given to the York algebra seminar, University of York, November 2018.
- *Pseudolattices, del Pezzo surfaces, and fibrations over discs,* research talk given to the Cambridge algebraic geometry seminar, University of Cambridge, May 2018.
- Threefolds fibred by K3 surfaces and mirror symmetry, research talk given to the Center of Mathematical Sciences and Applications mirror symmetry seminar, Harvard University, April 2018.
- *ADE surfaces*, research talk given to the Loughborough geometry and mathematical physics seminar, Loughborough University, March 2018.

- *ADE surfaces*, research talk given to the Warwick algebraic geometry seminar, University of Warwick, January 2018.
- *Mirror symmetry for lattice polarized del Pezzo surfaces*, research talk given to the COW national algebraic geometry seminar, University of Warwick, July 2017.
- Mirror symmetry for lattice polarized del Pezzo surfaces, research talk given to the Freie Universität Berlin arithmetic geometry seminar, Freie Universität Berlin, June 2017.
- Towards a compactification of the moduli space of K3 surfaces of degree two, research talk given to the Warwick algebraic geometry seminar, University of Warwick, January 2017.
- Constructing threefolds via K3 fibrations, research talk given at the East Midlands seminar in geometry, University of Loughborough, November 2016.
- Towards a compactification of the moduli space of K3 surfaces of degree two, research talk given to the Oxford algebraic and symplectic geometry seminar, University of Oxford, November 2016.
- Calabi-Yau threefolds fibred by lattice polarized K3 surfaces, research talk given to the UIC algebraic geometry seminar, University of Illinois at Chicago, September 2015.
- Calabi-Yau threefolds fibred by lattice polarized K3 surfaces, research talk given to the Waterloo geometry and topology seminar, University of Waterloo, October 2014.
- *Plane sextics and hyperbolic diagrams*, research talk given to the Calabi-Yau varieties postdoctoral seminar, Fields Institute, Toronto, November 2013.
- Families of lattice polarised K3 surfaces with monodromy, research talk given to the PIMS geometry and physics seminar, University of Alberta, November 2013.
- Families of lattice polarised K3 surfaces with monodromy, research talk given to the University of Georgia algebraic geometry seminar, University of Georgia, September 2013.
- Families and moduli of K3 surfaces and Calabi-Yau threefolds, research talk given to the Calabi-Yau varieties postdoctoral seminar, Fields Institute, Toronto, July 2013.
- Degenerations of K3 surfaces of degree two, research talk given to the University of Georgia algebraic geometry seminar, University of Georgia, February 2012.
- Models for threefolds fibred by K3 surfaces of degree two, research talk given to the COW national algebraic geometry seminar, University of Warwick, May 2011.
- Models for threefolds fibred by K3 surfaces of degree two, research talk given to the Liverpool algebraic and arithmetic geometry seminar, University of Liverpool, April 2011.
- Models for threefolds fibred by K3 surfaces of degree two, research talk given to the CALF national junior algebraic geometry seminar, Imperial College, London, April 2011.
- Models for threefolds fibred by K3 surfaces of degree two, research talk given to the Oxford junior geometry and topology seminar, University of Oxford, October 2010.
- Hodge theory, period mappings and the moduli of K3's, short general interest talk given to the CALF national junior algebraic geometry seminar, Imperial College, London, April 2009.
- Degenerations of surfaces with Kodaira number zero, general interest talk given to the CALF national junior algebraic geometry seminar, University of Oxford, March 2009.
- The construction of ample (2)-polarised K3-fibrations, research talk given to the Oxford junior geometry and topology seminar, University of Oxford, November 2008.
- An introduction to the birational classification of surfaces, general interest talk given to the Oxford junior geometry and topology seminar, University of Oxford, June 2008.
- *Tjurina and Milnor numbers of matrix singularities*, research talk given to the CALF national junior algebraic geometry seminar, University of Warwick, November 2007.

Colloquia	• Threefolds fibred by K3 surfaces, colloquium talk given at the University of Saskatchewan, March 2016.
	• A lay person's guide to birational geometry, "open access" talk given to the New College graduate colloquium, University of Oxford, January 2009.
Public Lectures	• To infinity and beyond?, public lecture at the LogiCON science convention, MacEwan University, May 2014.
	• The mathematics of knots (or: what do pure mathematicians do all day?), public lecture at the LogiCON science convention, University of Alberta, May 2013.
	• <i>Non-Euclidean geometry</i> , public lecture at the LogiCON science convention, TELUS World of Science, Edmonton, April 2012.