

KIYOSHI IGUSA CV

Education

Princeton University Ph.D. 1979

Ph.D. Thesis: "The $Wh_3(\pi)$ -obstruction for pseudoisotopy"

Math major at University of Chicago 1968-1971

Positions held

1989 - Professor, Brandeis University

1981 - 1989 Associate Professor, Brandeis University

1975 - 1981 Assistant Professor, Brandeis University, Waltham, MA

Conferences organized

Workshop on Higher Reidemeister Torsion, American Institute of Mathematics, Palo Alto, CA Oct 19-23, 2009. Organized by S.Goette, K.Igusa, J.R.Klein.

Auslander Distinguished Lectures and Conference, Woods Hole, MA, Apr 23-28. Organized by K.Igusa, A.Martsinkovski, G.Todorov.

Recent talks given

"Outline of higher Igusa-Klein torsion" and "Axioms for higher torsion,"
Two talks given at: Workshop on Higher Reidemeister Torsion, American Institute of Mathematics, Palo Alto, CA Oct 20, 22, 2009

"Comparison of views on finitistic projective dimension," XXIst Meeting on representation theory of algebras, University of Sherbrooke, Quebec, Canada Oct 2, 2009

"Exceptional sequences, braids groups and clusters," XVIII Latin-American Algebra Colloquium, Sao Pedro, Brazil, Aug 7, 2009.

"Axiomatic characterization of exotic torsion" Dartmouth College, NH, Feb 12, 2009

Recent papers

(with R. Schiffler) *Exceptional sequences and clusters*, to appear in J. of Algebra.

(with K. Orr, G. Todorov and J. Weyman) *Cluster complexes via semi-invariants*, to appear in Compositio Math.

Pontrjagin classes and higher torsion of sphere bundles, Proc. of Groups of Diffeomorphisms 2006. University of Tokyo, Japan: Mathematical Society of Japan, 2008.

Axioms for higher torsion invariants of smooth bundles, J. Topol. **1** (2008), no. 1, 159–186.

Other papers

(with G. Todorov) *On the finitistic global dimension conjecture for Artin algebras*, Representations of algebras and related topics, Fields Inst. Commun., vol. 45, Amer. Math. Soc., Providence, RI, 2005, pp. 201–204.

Graph cohomology and Kontsevich cycles, Topology **43** (2004), no. 6, 1469–1510.

Higher complex torsion and the framing principle, Mem. Amer. Math. Soc. **177** (2005), no. 835, xiv+94.

Higher Franz-Reidemeister Torsion, AMS/IP Studies in Advance Mathematics, vol. 31, International Press, 2002.

(with K. Orr), *Links, pictures and the homology of nilpotent groups*, Topology **40** (2001), no. 6, 1125–1166.