

List of Publications of Yasuyuki Kawahigashi

- [1] Centrally ergodic one-parameter automorphism groups on semifinite injective von Neumann algebras, *Math. Scand.* **64** (1989), 285–299.
- [2] One-parameter automorphism groups of the hyperfinite type II_1 factor, *J. Operator Theory* **25** (1991), 37–59.
- [3] One-parameter automorphism groups of the injective II_1 factor arising from the irrational rotation C^* -algebra, *Amer. J. Math.* **112** (1990), 499–524.
- [4] One-parameter automorphism groups of the injective II_1 factor with Connes spectrum zero, *Canad. J. Math.* **43** (1991), 108–118.
- [5] (with C. E. Sutherland & M. Takesaki) The structure of the automorphism group of an injective factor and the cocycle conjugacy of discrete abelian group actions, *Acta Math.* **169** (1992), 105–130.
- [6] Cohomology of actions of discrete groups on factors of type II_1 , *Pac. J. Math.* **149** (1991), 303–317.
- [7] (with M. Takesaki) Compact abelian group actions on injective factors, *J. Funct. Anal.* **105** (1992), 112–128.
- [8] Automorphisms commuting with a conditional expectation onto a subfactor with finite index, *J. Operator Theory* **28** (1992), 127–145.
- [9] Group actions on injective factors, in “Current Topics in Operator Algebras”, World Scientific Publishing (1991), 2–12.
- [10] On flatness of Ocneanu’s connections on the Dynkin diagrams and classification of subfactors, *J. Funct. Anal.* **127** (1995), 63–107.
- [11] (with M. Izumi) Classification of subfactors with the principal graph $D_n^{(1)}$, *J. Funct. Anal.* **112** (1993), 257–286.
- [12] Exactly solvable orbifold models and subfactors, in “Functional Analysis and Related Topics”, Lect. Notes in Math. 1540, Springer Verlag, (1992), 127–147.

- [13] (with D. E. Evans) Orbifold subfactors from Hecke algebras, *Commun. Math. Phys.* **165** (1994), 445–484.
- [14] Centrally trivial automorphisms and an analogue of Connes’s $\chi(M)$ for subfactors, *Duke Math. J.* **71** (1993), 93–118.
- [15] (with D. E. Evans) From subfactors to 3-dimensional topological quantum field theories and back — a detailed account of Ocneanu’s theory —, *Internat. J. Math.* **6** (1995), 537–558.
- [16] (with D. E. Evans) Subfactors and conformal field theory, in “Quantum and non-commutative analysis”, Kluwer Academic (1993), 341–369.
- [17] (with D. E. Evans) The E_7 commuting squares produce D_{10} as principal graph, *Publ. RIMS Kyoto Univ.* **30** (1994), 151–166.
- [18] Classification of paragroup actions on subfactors, *Publ. RIMS Kyoto Univ.* **31** (1995), 481–517.
- [19] Paragroups and their actions on subfactors, in “Subfactors”, World Scientific (1994), 64–84.
- [20] Paragroups as quantized Galois groups of subfactors, *Sugaku Exp.* **9** (1996), 21–35.
- [21] (with D. E. Evans) On Ocneanu’s theory of asymptotic inclusions for subfactors, topological quantum field theories and quantum doubles, *Internat. J. Math.* **6** (1995), 205–228.
- [22] Orbifold subfactors, central sequences, and the relative Jones invariant κ , *Internat. Math. Res. Notices* (1995), 129–140.
- [23] Classification of approximately inner automorphisms of subfactors, *Math. Ann.* **308** (1997), 425–438.
- [24] (with D. E. Evans) “Quantum symmetries on operator algebras” (848 pages), Oxford University Press (1998).
- [25] (with D. E. Evans) Orbifold subfactors from Hecke algebras II — Quantum doubles and braiding—, *Commun. Math. Phys.* **196** (1998), 331–361.

- [26] Quantum doubles and orbifold subfactors, in “Operator Algebras and Quantum Field Theory”, International Press (1997), 271–283.
- [27] Subfactors and paragroup theory, in “Operator Algebras and Operator Theory”, Contemp. Math. **228** (1998), 179–188.
- [28] Quantum Galois correspondence for subfactors, *J. Funct. Anal.* **167** (1999), 498–520.
- [29] (with J. Böckenhauer, D. E. Evans) On α -induction, chiral generators and modular invariants for subfactors, *Commun. Math. Phys.* **208** (1999), 429–487.
- [30] (with R. Longo, M. Müger) Multi-interval subfactors and modularity of representations in conformal field theory, *Commun. Math. Phys.* **219** (2001), 631–669.
- [31] (with J. Böckenhauer, D. E. Evans) Chiral structure of modular invariants for subfactors, *Commun. Math. Phys.* **210** (2000), 733–784.
- [32] (with J. Böckenhauer, D. E. Evans) Longo-Rehren subfactors arising from α -induction, *Publ. RIMS, Kyoto Univ.* **37** (2001), 1–35.
- [33] Braiding and nets of factors on the circle, in “Operator Algebras and Applications”, Adv. Stud. Pure Math. **38**, (2004), 219–228.
- [34] Braiding and extensions of endomorphisms of subfactors, in “Mathematical Physics in Mathematics and Physics”, R. Longo ed., The Fields Institute Communications **30**, AMS Publications (2001), 261–269.
- [35] Generalized Longo-Rehren subfactors and α -induction, *Commun. Math. Phys.* **226** (2002), 269–287.
- [36] (with R. Longo) Classification of local conformal nets: Case $c < 1$, *Ann. of Math.* **160** (2004), 493–522.
- [37] Conformal quantum field theory and subfactors, *Acta Math. Sin.* **19** (2003), 557–566.
- [38] (with N. Sato, M. Wakui) (2+1)-dimensional topological quantum field theory from subfactors and Dehn surgery formula for 3-manifold invariants, *Adv. Math.* **195** (2005), 165–204.

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- [40] (with R. Longo) Classification of two-dimensional local conformal nets with $c < 1$ and 2-cohomology vanishing for tensor categories, *Commun. Math. Phys.* **244** (2004), 63–97.
- [41] Subfactor theory and its applications — operator algebras and quantum field theory —, in “Selected Papers on Differential Equations”, Amer. Math. Soc. Transl. **215**, Amer. Math. Soc. (2005), 97–108.
- [42] Topological quantum field theories and operator algebras, in “Quantum Field Theory and Noncommutative Geometry”, Lect. Notes in Phys. 662, Springer Verlag, (2005), 241–253.
- [43] Classification of operator algebraic conformal field theories in dimensions one and two, in “XIVth International Congress on Mathematical Physics”, World Scientific (2005), 476–485.
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- [45] (with R. Longo) Local conformal nets arising from framed vertex operator algebras, *Adv. Math.* **206** (2006), 729–751.
- [46] (with R. Longo, U. Pennig, K.-H. Rehren) Classification of non-local chiral CFT with $c < 1$, *Commun. Math. Phys.* **271** (2007), 375–385.
- [47] Conformal field theory and operator algebras, in “New Trends in Mathematical Physics”, Springer (2009), 345–356.
- [48] (with S. Carpi, R. Longo) Structure and classification of superconformal nets, *Ann. Henri Poincaré* **8** (2008), 1069–1121.
- [49] Superconformal field theory and operator algebras, in “Noncommutativity and Singularities”, Adv. Stud. Pure Math. **55** (2009), 69–81.
- [50] (with S. Carpi, R. Hillier, R. Longo) Spectral triples and the super-Virasoro algebra, *Commun. Math. Phys.* **295** (2010), 71–97.
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