

# Irreducible amenable subalgebras and Connes' bicentralizer problem

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We investigate the structure of irreducible inclusions of type III factors. We relate the problem of existence of irreducible amenable subalgebras to Connes' bicentralizer problem. Among other results, we prove a relative version of Haagerup's bicentralizer theorem and use it to solve Kadison's problem for discrete inclusions. Based on joint work with H. Ando, U. Haagerup and A. Marrakchi.

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