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Karl-Henning Rehren. *Subfactors and Topological Defects in Conformal Quantum Field
Theory.*

Models in relativistic quantum field theory can be described by so-called local nets of von Neumann algebras. Rich structures arise by the study of conformal QFT on two-dimensional space time. We introduce the notion of topological defects between such theories. Given a completely rational conformal net $\mathcal{A}$ on the circle, we give a classification of all full conformal QFT models based on $\mathcal{A}$ and its topological defects in terms of the data in the representation category of $\mathcal{A}$. The result is obtained and can naturally be formulated in terms of braided subfactors and tensor categories. (Received September 15, 2014)