1125-81-966   **Marcel Bischoff*** (`marcel.bischoff@vanderbilt.edu`), Vanderbilt University, Department of Mathematics, 1326 Stevenson Center, Nashville, TN 37240. *Generalized fixed points of conformal nets.*

We define actions of finite hypergroups by unital completely positive maps on factors. Such actions arise naturally from finite index subfactors with commutative 2-box space. Using this we can define a proper action on local conformal net of factors and show that the fixed point gives a finite index subnet. Conversely, every finite index subnet arises from a unique proper action of a hypergroup. Using Longo-Rehren subfactors and α-induction we get a classification of possible actions for completely rational nets. In this case, the hypergroup is necessarily formed by double cosets $V\backslash F/V$ where F is a categorifiable fusion ring and V the fusion ring of representations of the net. (Received September 13, 2016)