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Yunxiang Ren* (yunxiang.ren@vanderbilt.edu), 1326 Stevenson Center, Vanderbilt University, Nashville, TN 37240. *Singly generated planar algebras by a 3-box.*

Subfactor planar algebra generated by a 2-box with Yang-Baxter relation has been classified by Bisch, Jones and Liu. We give a classification of singly generated planar algebra by a 3-box with 'I=H' relation. The above part is joint work with C.Jones, Z.Liu. Later, we observe a $Z/2Z$ symmetry on the subfactor arising from $SU(N)_N$ which produces a family of subfactors singly generated by a 4-box. (Received September 14, 2015)