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Arnaud Brothier* (arnaud.brothier@vanderbilt.edu), Vanderbilt University, Department of Mathematics, 1326 Stevenson Center, Nashville, TN 37240. *Subfactors, Hecke pairs, and approximation properties.*

We consider subfactor planar algebras that are constructed with a group acting on a bipartite graph. There is a Hecke pair of countable discrete groups associated with this construction. We show that if this Hecke pair satisfies a given approximation property, then the subfactor planar algebra satisfies it as well. We exhibit an infinite family of subfactor planar algebras with non-integer index that are non-amenable, have the Haagerup property, and have the complete metric approximation property. (Received September 11, 2015)