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Ryan J. Zerr* (ryan.zerr@und.nodak.edu), Mathematics Department, University of North Dakota, PO Box 8376, Grand Forks, ND 58202. *Using Character Groups to Construct AF Groupoids.*

By associating character groups to certain types of dimension groups, the unit space for an equivalence relation groupoid will be constructed. The groupoid itself can then be realized by considering the graphs of certain partial homeomorphisms defined by the characters. This groupoid will have the property that its C^* -algebra is an AF algebra whose dimension group is isomorphic to the dimension group with which we started. (Received September 14, 2005)