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Jonathan D.H. Smith*, Department of Mathematics, 396 Carver Hall, Iowa State University, Ames, IA. *Duality for central algebras*. Preliminary report.

Building on Pontryagin duality for locally compact abelian groups, a duality for central algebras is obtained. Except in certain restricted cases, this duality is not given by a schizophrenic object. A central algebra and its dual fit together to form a new structure known as the double. (Received August 24, 2005)