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**Frederick M. Goodman\*** ([goodman@math.uiowa.edu](mailto:goodman@math.uiowa.edu)), Department of Mathematics MLH, University of Iowa, Iowa City, IA , and **John Graber** ([jgraber@bethelks.edu](mailto:jgraber@bethelks.edu)), Bethel College, North Newton, KS. *Cellularity and the Jones basic construction.*

We establish a framework for cellularity of algebras related to the Jones basic construction. Our framework allows a uniform proof of cellularity of Brauer algebras, ordinary and cyclotomic BMW algebras, and others. Our cellular bases are labeled by paths on certain branching diagrams rather than by tangles, and may be regarded as analogues of the Murphy basis of the Hecke algebra.

It is built into our construction that the cellular structures are compatible with restriction and induction of modules. In examples, it is often easy to handle Jucys–Murphy like element within our framework, although the framework does not automatically produce such elements. (Received February 16, 2010)