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Michael D Wills* (willsmd@whitman.edu), Whitman College, 345 Boyer Avenue, Walla Walla, WA 99362. *Extension of Spectral Scales to Unbounded Operators*. Preliminary report.

The notion of a spectrum of a self-adjoint operator has proved to be of great interest. It is natural to try and extend the idea to n -tuples of operators. One approach has been Akemann, Anderson and Weaver's notion of a Spectral Scale. As originally defined, the Spectral Scale was a little limited in the kinds of operators it was applicable to, and so a great deal of work has been done to extend the idea. In a forthcoming paper, we extend the notion of a Spectral Scale to n -tuples of unbounded operators affiliated with a finite von Neumann Algebra.

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