

1119-18-251 **Tobias Hagge*** (tobias.hagge@pnnl.gov), **Paul Bruillard**, **César Galindo**, **Richard Ng**,
Julia Yael Plavnik, **Eric Rowell** and **Zhenghan Wang**. *The sixteen-fold way*. Preliminary
report.

The sixteen-fold way conjecture asserts that every supermodular tensor category has minimal modular extensions to exactly sixteen modular tensor categories. I plan to discuss the status of the conjecture and recent progress, and sketch applications to physics.

This talk covers joint work with Paul Bruillard, César Galindo, Richard Ng, Julia Plavnik, Eric Rowell, and Zhenghan Wang. (Received February 16, 2016)