1163-57-1136 **Sherilyn Tamagawa*** (shtamagawa@davidson.edu). *The Cobweb Interpretation of the B_2 Spider.* Preliminary report.

Kuperberg spiders are a diagrammatic interpretation of representations of quantum Lie algebras. These spiders have been described for several classes of Lie algebras. Recently, work has been done to reinterpret some of these spiders as simpler diagrams with fewer relations, known as cobwebs. Cobwebs are formed using the combinatorial information from the root systems of some Lie algebras. They are also diagrammatic interpretations of representations of certain quantum Lie groups, but without trivalent vertices. We extend these results to a new class of spider. We established a well-defined, non-trivial map from the original Kuperberg spider to the newly de fined cobwebs. (Received September 14, 2020)