1161-57-251    **Louis H Kauffman\*** (`kauffman@uic.edu`), 5530 South Shore Drive, Apt 7C, Chicacgo, IL
60637-1946. *Representations of the Artin Braid Group Associated with Anyons.*

This talk will discuss the structure of unitary braid group representations associated with Fibonacci anyons and with anyons associated with Majorana Fermions, and how these representations are related with quantum algorithms and topological quantum computing. (Received August 18, 2020)