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**FANG-TING TU**, Louisiana State University  
*A Geometric Interpretation of a Whipple's  ${}_7F_6$  Formula*

This talk is based on a joint work with Wen-Ching Winnie Li and Ling Long. We consider hypergeometric motives corresponding to a formula due to Whipple which relates certain hypergeometric values  ${}_7F_6(1)$  and  ${}_4F_3(1)$ . From identities of hypergeometric character sums, we explain a special structure of the Galois representation behind Whipple's formula leading to a decomposition that can be described by Hecke eigenforms. In this talk, I will use an example to demonstrate our approach and relate the hypergeometric values to periods of modular forms.