Mining for ω and f_1 decays in CLAS Data ANDREW BEITER, MICHAEL WOOD, Canisius College, CLAS COLLABORATION — One advantage of the CLAS detector at the Thomas Jefferson National Accelerator Facility (TJNAF) is its ability to reconstruct multi-particle decays. For this reason, we are mining the E02-104 data set for the exclusive decays of the ω and f_1 mesons. Each meson has either three or four particles in the final state. Our goal is to determine the reaction rates with CLAS and extrapolate to those for the E12-06-117 experiment, that will run when the CLAS12 detector is built for the TJNAF 12-GeV upgrade. The focus of the latter experiment is to understand the hadronization process from free quarks to color-neutral hadrons. This poster will describe our work using the data mining software developed by the group at Old Dominion University under a grant from the Department of Energy.

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