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Patrick M Gilmer* (gilmer@math.lsu.edu) and **Gregor Masbaum.** *Irreducible factors of modular representations of mapping class groups arising in Integral TQFT.*

We find decomposition series of length at most two for modular representations in positive characteristic of mapping class groups of surfaces induced by an integral version of the Witten-Reshetikhin-Turaev $SO(3)$ -TQFT at the p -th root of unity, where p is an odd prime. The dimensions of the irreducible factors are given by Verlinde-type formulas. (Received August 24, 2012)