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Cihan Bahran* (bahra004@umn.edu). *Categorifying induction formulae via divergent series*. Preliminary report.

We show that Brauer's induction formula for complex characters and its generalizations can be obtained by summing a divergent series over Dwyer's subgroup decomposition category. The same method, applied to Dwyer's centralizer decomposition category, yields a new induction formula. (Received January 19, 2018)