

1136-19-213

**Elden Elmanto\***, 2033 Sheridan Road, Evanston, IL 60208, and **Håkon Kolderup**, Ullevål Stadion, Sognsveien 77B, Oslo, Norway. *Motivic Module Categories and their Classification*.

A theorem of Østvær and Röndigs show that modules over the motivic cohomology spectrum recovers Voevodsky's category of motives, at least after inverting residual characteristics. We give a general framework for identifying categories of "motives," including Voevodsky's category and the more recent iteration of Milnor-Witt motives due to Déglise-Fasel, as modules over a motivic  $E_\infty$ -ring spectrum. The main ingredients are Lurie's Barr-Beck theorem and recent results identifying compact objects in  $p$ -inverted stable motivic homotopy category. (Received January 16, 2018)