

# A construction of model structures

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In this talk, we show a method to construct model structures from two weak factorization systems. We then construct a flat model structure on the category of additive functors from a preadditive category satisfying certain conditions to the module category, whose homotopy category is the  $\mathcal{Q}$ -shaped derived category introduced by Holm and Jørgensen. This talk is based on a joint work with Zhenxing Di, Liping Li and Yajun Ma.