## 1154-55-935Zhen Huan\* (huanzhen84@yahoo.com), Center for Mathematical Sciences, Huazhong University<br/>of Science and Technology, 1037 Luoyu Road, Wuhan, Hubei 430074, Peoples Rep of China, and<br/>Nathaniel Stapleton. Level Structures and Morava E-theory.

It is a historical problem how elliptic cohomology can classify the geometric structures on the corresponding elliptic curve. Strickland proved that the Morava E-theory of the symmetric group modulo a certain transfer ideal classifies the power subgroups of its formal group. Stapleton proved this result for generalized Morava E-theory via transchromatic character theory. And Huan proved that the subgroups of the Tate curve can be classified in the same way using quasi-elliptic cohomology. In this talk we show Strickland's theorem is also true for the classification of the level structes of generalized Morava E-theory via Hopkins-Kuhn-Ravenel character theory. This result gives further indications that Strickland's result holds for elliptic cohomology theories. (Received September 12, 2019)