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**Hung P Tong-Viet\*** (tongviet@math.binghamton.edu), Department of Mathematical Sciences, Binghamton University, Binghamton, NY 13902. *Brauer characters and normal Sylow  $p$ -subgroups.*

The celebrated Itô-Michler theorem for Brauer characters states that if a prime  $p$  does not divide the degrees of any irreducible  $p$ -Brauer characters of a finite group  $G$ , then  $G$  has a normal Sylow  $p$ -subgroup. In this talk, I will discuss several generalizations of this theorem using various inequalities involving  $p$ -parts and  $p'$ -parts of the  $p$ -Brauer character degrees. (Received September 19, 2018)