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Terry Gannon* (tgannon@math.ualberta.ca), Math Dept, U of Alberta, Edmonton, Alberta
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The Hasse principle tells us that insight into the global is gained through the local. We will apply this to fusion rings, a simple algebraic structure arising in conformal field theory which includes e.g. representation rings of quantum groups at roots of 1, and Drinfeld doubles of finite groups. We will explain how their classification can be determined by an analogous (and more accessible) one over the finite fields. (Received February 03, 2009)