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Justin Lynd* (lynd@louisiana.edu). *Weight conjectures for fusion systems.*

Local to global conjectures in the representation theory of finite groups have to do with global quantities that can be expressed (often only conjecturally) purely in terms of the representations of p -local subgroups. For the blockwise versions of these conjectures, the local side of the equalities often make sense for an arbitrary saturated fusion system over a finite p -group, even for exotic ones that do not arise as the fusion system of any block. This gives rise to purely local conjectures inspired by their block theoretic counterparts. We state and initiate investigation of some of these local conjectures, while including some computational examples for certain exotic fusion systems. This is joint work with Radha Kessar, Markus Linckelmann, and Jason Semeraro. (Received January 28, 2019)