JACOBSON RADICALS AND (2-CATEGORIES OF) MODULE CATEGORIES

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I will present a generalization of the Jacobson radical of a finite-dimensional algebra to the setting of module categories over tensor categories (and some generalizations thereof). Using this generalization, I will give a characterization of exact module categories among more general finite abelian module categories, of finite tensor categories among more general finite abelian monoidal categories, and finally also of 2-categories of module categories among more general (but in a sense finite) 2-categories.