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**Wenliang Zhang\*** ([w1zhang@uic.edu](mailto:w1zhang@uic.edu)), 851 S Morgan St, Chicago, IL 60607. *Injective dimension of  $F$ -finite  $F$ -modules*. Preliminary report.

Theory of  $F$ -modules was introduced by Lyubeznik and has found many applications in the study of rings of prime characteristic. For instance, it was shown by Lyubeznik that the injective dimension of an  $F$ -module is bounded by the dimension of the support. We will discuss some recent work regarding when the injective dimension of an  $F$ -module is the same as the dimension of the support. (Received February 16, 2016)