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Juan Felipe Perez* (juanfp@umich.edu), 530 Church Street, Ann Arbor, MI. *A Charaterization of F-jumping Numbers.*

The F -jumping numbers are invariants associated to singularities in positive characteristic. In order to study these invariants Blickle, Mustata and Smith introduce the D -modules M_α . We prove that the simplicity of these modules determines if α is an F-jumping number. This is joint work with Luis Núñez-Betancourt. (Received September 16, 2013)