1067-13-1341Craig Huneke and Shunsuke Takagi* (stakagi@math.mit.edu), Department of Mathematics,
Massachusetts Institute of Technology, 77 Massachusetts Ave. Room 2-230, Cambridge, MA 02139,
and Kei-ichi Watanabe. On parameter F-jumping numbers.

A parameter F-jumping number is a value of the coefficient at which the parameter test submodule, a positive characteristic analog of multiplier submodules, makes a jump. We study its properties and compare this invariant with another positive characteristic invariant, called F-thresholds. Also, we give a lower bound for the parameter F-jumping number associated to homogeneous parameter ideals in terms of their multiplicities. (Received September 20, 2010)