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Mariya I Soskova*, Sofia University, 5 James Bourchier Blvd, 112 Sofia, Bulgaria. *Defining the jump classes in the local structure of the enumeration degrees.*

Recent work by Slaman and Soskova has established that the local structure of the enumeration degrees, the degrees bounded by the first jump of the least degree, is an automorphism base for the global structure of the enumeration degrees. This motivates our interest in the question, which classes of degrees are first order definable in the local structure of the enumeration degrees. In previous work with Ganchev, we had established that the low enumeration degrees and the total enumeration degrees are locally definable. I will describe some recent work with Ganchev, in which the previous two results are applied to show the definability of all jump classes in the local structure of the enumeration degrees. (Received August 10, 2015)