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Alexander Diaz-Lopez* (alexander.diaz-lopez@villanova.edu), 800 Lancaster Ave (SAC 305), Villanova, PA 19462. *Peaks and descents of permutations: A story with open questions.*

Peaks and descents of permutations are properties based on when a permutation has the consecutive patterns 132 or 231 for peaks and 21 for descents. They have been studied algebraically for some time (e.g. Solomon algebra, peak algebra) and more recently, from a combinatorial point of view. In this talk, I will give an overview of some important facts about them with open questions intertwined. Everybody is welcome to attend the talk and I will keep the background to a minimum. (Received January 20, 2020)