# A comparison of two ways to generalize Denjoy-Carleman ultradifferentiable classes

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In the past decade and simultaneously, two ways to generalize Denjoy-Carleman ultradifferentiable classes have appeared. We will show that the ultradifferentiable classes of functions defined and studied in several papers by S. Pilipović, N. Teofanov and F. Tomić are special cases of the classes defined by weight matrices in the sense of A. Rainer and G. Schindl. In addition, we will detail how the results obtained in the general framework of the latter theory can be applied to the former.