Warsaw Workshop on Non-Standard Dark Matter: <br/> multicomponent scenarios and beyond

Contribution ID : 43

General approach to dark matter coannihilation

Content :

I will present a general classification of simplified models of dark matter coannihilation. Main phenomenological features of these models will be discussed by introducing general classes of LHC signatures. Several novel signatures that are not covered in current LHC searches will be emphasized. The class of models with a QCD charged coannihilation partner, highly relevant for LHC studies and interesting from the point of view of relic density predictions will be considered in detail.

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