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In the general context of pro- p groups, the properties of being finitely generated and finitely presented can be translated as the homological properties FP_1 and FP_2 , respectively. Highest homological finiteness property FP_m is a generalization of finite presentability in this context.

In this talk we will present results obtained jointly with D. Kochloukova for soluble pro- p groups that satisfies highest homological finiteness property FP_m . We will see we have an upper bound for the torsion free rank of the i -th homology groups of finite index subgroups in G , for i up to a dimension in terms of the homological type of G .