

Seminar on Condensed Mathematics

Talk 2: Condensed Abelian Groups

Pedro Núñez

7th October 2019

Contents

1	The category of condensed abelian groups	1
---	--	---

1 The category of condensed abelian groups

Recall from the previous talk:

Definition 1.1. The *pro-étale site* of a point, denoted $*_{\text{prot}}$, consists of:

- The category whose objects are profinite sets S (topological spaces homeomorphic to an inverse limit of finite discrete topological spaces, a.k.a. totally disconnected compact Hausdorff spaces) and whose morphisms are continuous maps.
- For a profinite set S , its covering sieves are all finite families $\{S_j \rightarrow S\}_{j \in J}$ of jointly surjective maps, i.e. $\sqcup_{j \in J} S_j \twoheadrightarrow S$ with J a finite indexing set.

References