Approximation as Differentiation notes

1 OVERVIEW

Some notes on the key constructions:

- Categories of families, special case of Grothendieck construction

2 DEFINITIONS

2.1 Category of families

Special case of Grothendieck construction for a functor $F : C \rightarrow \mathbf{Cat}$, where we consider the special case where $F : C \rightarrow \mathbf{Set}$. (This is a "special case" inasmuch as there is an embedding from $\mathbf{Set}$ to $\mathbf{Cat}$ sending each set to the corresponding discrete category.)

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