Orthogonal Complements

1 Why

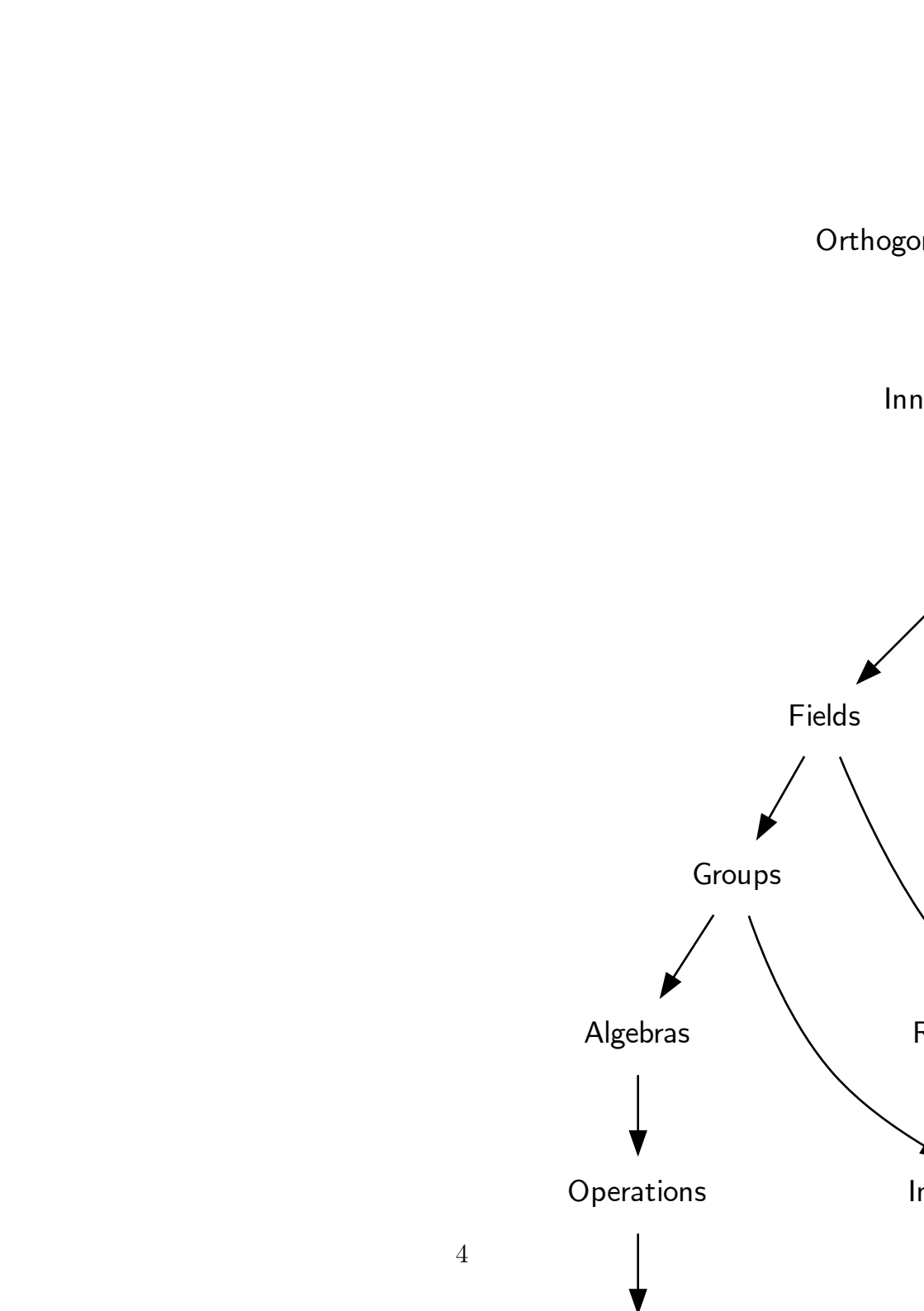
TODO

2 Definition

The *orthogonal complement* of a subset of an inner product space is the set of vectors which are orthogonal to every vector in the subset.

2.1 Notation

Let $(V, \mathbf{F})$ be a vector space and $U \subset V$. We denote the orthogonal complement of U by $U^{\perp}$.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