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### **Learning Spaces---Concepts, Results, Applications**

A learning space is a combinatoric structure equivalent to an antimatroid but axiomatized differently. It is designed for the efficient assessment of knowledge in the framework of a stochastic questioning process. The system is also suitable as the basic engine for a teaching software named ALEKS, and has been widely used as such for various mathematical subjects, ranging from arithmetic to pre-calculus. The talk will discuss the axioms and some basic concepts and results. An overview of the application will also be given.