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Abstract Elementary Classes

a middle ground of generalization

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Model Theory of classes of structures axiomatizable in First Order Logic has had an enormous development in the last 30 years. There are however important mathematical cases left out of this development: many natural classes that must also be treated in a model theoretical way, but are not best studied via First Order Model Theory. In recent years, Abstract Elementary Classes have emerged as a good middle ground between the power of First Order Model Theory and better generality. The starting point is not achieved by changing the logic - it is rather achieved by controlling the way structures in a class embed into other structures. I will present the basic theory, various recent examples, and various model theoretic issues linked to these classes.

Lunedì 26 novembre ore 11:15–12:15 aula Monod