

10<sup>th</sup> Summer School on Condensed Matter Research

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## **Abstract**

## **Introduction to Multiferroic Materials**

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I will give an introduction to the phenomenon of ferroelectricity and the mechanisms of multiferroicity, which is the simultaneous and coupled presence of ferroelectric and magnetic order in a material. I will give particular emphasis to multiferroics where ferroelectricity is induced by magnetic order and leads to new magneto-electric coupling effects and excitations.