

## Arantxa Arbe

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<b>Título de la charla</b>	Vitrimers as Promising Polymeric Materials: Fundamental Aspects

### Resumen

The incorporation of dynamic bonds into polymer networks has emerged as a promising strategy to address the environmental challenges associated with the pervasive use of polymers and their generally limited recyclability. Vitrimers represent a distinct class of polymeric materials in which dynamic covalent bonds form networks with associative reversible cross-links. In the practice, the usual chemical incompatibility of cross-linker moieties and polymer backbone leads to nano- or micro-phase separation. Understanding the intricate structural and dynamical behavior of these systems is essential for the rational design of this emerging class of materials and represents an exciting challenge from a fundamental perspective. In this talk, model vitrimers will serve as illustrative examples to highlight the rich and diverse phenomenology exhibited by soft-matter systems.