

## **An Introduction to Interwoven Braids**

*Sofia Lambropoulou (National Technical University of Athens)*

We will present a novel way to approach doubly periodic biaxial weaving via braid theory. A periodic cell of such weaves can be seen as a particular tangle embedded in a thickened torus, and more specifically as the interweaving of two braids, one embedded along a standard longitude and the other one along a meridian. The entanglement of these two braids can be described by a weaving operation which occurs at the diagrammatic level, and that will be introduced in this talk.

This is joint work with Sonia Mahmoudi of Tohoku University.