

SEMINARIO DI GEOMETRIA

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Politecnico di Torino,
Dipartimento di Scienze Matematiche,
AULA SEMINARI

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Curves in the $K3$ period domain

First and foremost, I recall several classical notions and results from the moduli theory of complex $K3$ surfaces. In particular, I introduce the $K3$ period domain as well as the so-called Burns-Rapoport period domain. Then I move on to the study of complex curves in the $K3$ period domain, beginning with the definition of twistor lines and twistor spaces. Based on joint work with Ana-Maria Breca, Martin Schwald, and Daniel Greb I present a new perspective and characterization of the mentioned twistor lines.