Seminario de investigación
Antonio Giraldo y Sonia Sastre

Conferencia

Knots in lasers

por

Benjamin Bode (Universidad Politécnica de Madrid)

Resumen

A laser beam can be described by a complex-valued function that satisfies a certain differential equation. The zeros of these functions form curves in 3-dimensional space that can be knotted or linked: so-called optical vortex knots. In this talk, I will present a construction that creates for a given knot type a corresponding solution to the differential equation. The construction is based on braids and topological properties of complex polynomials.

Lugar:

Sala H-1002 (bloque 1)
E.T.S. Ingenieros Informáticos,
Universidad Politécnica de Madrid,
Campus de Montegancedo,
28660 Boadilla del Monte,
Madrid

Fecha:

el día **8 de mayo de 2025**
a las **12:30** horas