



Berlin
Mathematical
School

BMS Women In Mathematics

Lecture Series

Friday 06 May 2011 at 14:30

Tea and cookies will be served after the lecture

TU Berlin, MA 042, Straße des 17. Juni 136, 10623 Berlin

Angela Ortega

(HU Berlin)



Prym Varieties

In her talk, Angela Ortega will speak about Prym varieties which are abelian varieties associated to unramified double covers of curves.

They provide a way to study abelian varieties via the rich and explicit geometry of algebraic curves, that goes beyond the classical theory of Jacobians. For instance a general abelian variety of dimension 4 or 5 is a Prym variety but not a Jacobian.

This talk will serve as an introduction to Prym varieties. Angela Ortega will highlight the basic problems and constructions assuming no familiarity with algebraic geometry, as well as discuss at the end more recent generalizations of Prym varieties.

Angela Ortega was born in 1975 in Monterey, N.L., Mexico. In 2003 she completed her Ph.D. titled "Sur l'espace des modules des fibrés vectoriels de rang 3 sur une courbe de genre 2 et la cubique de Coble" at the University of Nice Sophia-Antipolis in France.

Since 2009, she works as a Scientific Researcher at Humboldt-Universität zu Berlin and is part of the Algebraic Geometry group in the Institute of Mathematics. Her main research interests lie in the geometry of moduli space of vector bundles on algebraic curves, Brill-Noether theory, Abelian and Prym varieties.