

Meeting: 998, Houston, Texas, SS 19A, Special Session on Algebraic Geometry

998-14-288 **Isidro B. Nieto*** (nieto@ifm.umich.mx), Ciudad Universitaria, edificio C-3 Morelia, Michoacan, Mexico. *Ramified coverings of polarized abelian type (1,3)-surfaces*. Preliminary report.

Fix (A, L) an abelian surface of type $(1,3)$ with L a symmetric line bundle and

let $\varphi : A \rightarrow \mathbf{P}_2$ be the mapping given by

the linear system $|L|$. This is a covering of degree 6 ramified

along a branch curve B of degree 18. Recent work of Lange-Sernesi

shows that B is singular along 72 nodes and 36 cusps. The problem is

to determine the equations for B with a full level structure. We discuss several approaches to the solution to this problem

and an example. (Received March 01, 2004)