

Meeting: 1007, Santa Barbara, California, SS 4A, Special Session on Automorphisms of Surfaces

1007-30-80 **David Singerman***, University of Southampton, Highfield, Southampton, England, and
Bernhard Koeck, University of Southampton, Highfield, Southampton, England. *Real Belyi
Theory and dessins d'enfants on Klein surfaces.*

Belyi's Theorem gives a characterization of Riemann surfaces that define complex algebraic curves defined over a number field. In this talk, we extend Belyi's results to apply to algebraic curves defined over a real number field. We then discuss the related theory of dessins d'enfants on Klein surfaces. We may also discuss Klein surfaces defined over a real number field that have maximal symmetry. (Received February 03, 2005)