

ALGEBRAIC GEOMETRY AND NUMBER THEORY SEMINAR

3:30 PM, Tuesday, March 24, 2015, Martin M-102
Refreshments 3:00 PM, Martin O-section foyer

The Chowla-Selberg formula for quartic abelian CM fields

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The Chowla-Selberg formula is a striking identity which relates values of the Dedekind eta function at quadratic points in the complex upper half-plane to products of values of Euler's gamma function Γ at rational numbers. We will provide explicit analogues of the Chowla-Selberg formula for quartic abelian CM fields. These identities relate values of certain Hilbert modular functions at CM points to values of both Γ and an analogous function Γ_2 at rational numbers. We will include several examples of our formulas for specific quartic fields.

All welcome. Research students in particular are encouraged to attend.

For further information, contact Jim Brown, jimlb@g.clemson.edu, Long 111.

Online: <http://www.math.clemson.edu/~jimlb/NumberTheoryGroup/NTSeminar.html/>