



# YMC 2006



Young Mathematicians Conference 2006

*August 4<sup>th</sup>-6<sup>th</sup> at The Ohio State University.*

## BRT POLYNOMIALS OF GASSMANN EQUIVALENT DESSINS

May Mei

*Louisiana State University* [Mentor: Neal Stoltzfus]

**Abstract of Summary Talk:** A dessin d'enfant is a multi-graph embedded on a topological surface. We can generate pairs of dessins from Gassmann triples,  $(G, H, H')$  where  $G$  is a group,  $H, H'$  are subgroups of  $G$ , and the permutation character  $\chi_{G/H}(g) = \chi_{G/H'}(g)$  for all  $g \in G$ . We will explore the Bollobás-Riordan-Tutte polynomial, a well-defined invariant, of Gassmann equivalent dessins. [MM14180636]

Contact: [maymei@math.lsu.edu](mailto:maymei@math.lsu.edu)

Received: July 21, 2006