



# YMC 2006



## Young Mathematicians Conference 2006

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### PARALLEL WORLDS: A REALTIME MULTI-USER VIRTUAL ENVIRONMENT ON A PHLEET OF GRAPHICS COMPUTERS

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**Abstract of Poster Prestation:** A heterogeneous cluster of computers (or Phleet) supporting Dr. Ben Schaeffer's Syzygy distributed graphics system can share scenegraphs and subgraphs among them. With Schaeffer's Myriad extension to Syzygy, a peer user makes a realtime local change to a scenegraph that propagates to select peer computers within the Phleet. Myriad creates collaborative virtual environments through scenegraph filtering. This project continues Ryan Mulligan and Andrew Ofisher's work implementing Myriad on the CAVE and CUBE simultaneously. In Parallel Worlds two peers interactively create intertwined, splined roller coasters. [EE07141912]

[Joint work with George Francis, Ryan Mulligan]

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