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Jeffrey L. Poet* (poet@missouriwestern.edu), Missouri Western State University, Computer Science, Math, and Physics Dept., 4525 Downs Drive, Saint Joseph, MO 64507, and A. Malcolm Campbell, Todd T. Eckdahl and Laurie J. Heyer. Bacterial Computers: Can E. coli solve a Hamilton Path Problem? Preliminary report.

A team of undergraduates and faculty in mathematics and biology from Davidson College and Missouri Western State University, working collaboratively as part of M.I.T.'s international Genetically Engineered Machines (iGEM) initiative, have used synthetic biology procedures to investigate the use of bacteria in determining if a given directed graph contains a Hamiltonian path. (Received September 18, 2007)