

1096-97-1369

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Spiral at UMCP ran from 2003 through 2013. Students from Historically Black Colleges and Universities came for an intense six week program designed both to teach mathematical subject matter and provide experience in open-ended exploration of substantial mathematical questions. Typically students had completed two years of a mathematics major and had had some but not extensive exposure to the writing of mathematical proofs. Topics suitable for this level were chosen in collaboration with the students. Students explored and discussed their topics but an essential goal was that, by the end of the program, they could have results that could be precisely stated and carefully proved.

Students were guided in their explorations, but to a large extent they were left on their own to accomplish whatever they could accomplish. Results were often new in the sense that neither the students nor the mentors knew them at the outset.

I will describe some of the projects, the mathematical results, and the impact on the students. (Received September 15, 2013)