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Ralph R Gomez* (rgomez1@swarthmore.edu), 500 College Avenue, Swarthmore, PA 19081.

Negative Sasakian Geometry In Dimension Five.

In this talk, we will report on an affirmative answer to an open problem posed by C. Boyer and K. Galicki: Do negative Sasakian structures exist on all connected sums of $S^2 \times S^3$? If time permits, we will address other aspects of negative Sasakian manifolds in dimension five. (Received February 22, 2010)