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**Zhonghai Ding\*** ([dingz@unlv.nevada.edu](mailto:dingz@unlv.nevada.edu)), Las Vegas, NV 89154. *Elliptic sine-Gordon equation.*

In this talk, we discuss the nonlinear elliptic sine-Gordon equation. Some recent results on the existence, multiplicity, and qualitative properties of positive solutions will be presented. (Received August 10, 2005)