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Charles P Boyer* (cboyer@math.unm.edu), Department of Mathematics and Statistics,
Universtiy of New Mexico, Albuquerque, NM 87131. *Toric Structures in Sasakian
Geometry*. Preliminary report.

After briefly reviewing toric contact geometry, I describe its relation with Sasakian geometry. In particular, I present a an explicit construction of toric Sasakian structures on simply connected 5-manifolds. I then outline a procedure for obtaining Sasakian-Einstein toric structures. (Received February 06, 2006)