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Shisen Luo* (ssluo@math.cornell.edu). *Cohomology rings of good contact toric manifolds.*

A good contact toric manifold M is determined by its moment cone C . We compute the equivariant cohomology ring with \mathbb{Z} coefficient of M in terms of the combinatorial data of C . Then under a smoothness criterion on the cone C , we compute the singular cohomology ring with \mathbb{Z} coefficient of M in terms of the combinatorial data of C . (Received January 12, 2011)