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**Abdelhamid Meziani\*** (meziani@fiu.edu), Department of Mathematics and Statistics, 11200 SW 8th Street, Miami, FL 33199. *Pseudoconvex Mizohata Structures on Compact Manifolds.*

We discuss the rigidity of pseudoconvex Mizohata structures on compact manifolds with abelian fundamental groups. Any simply connected  $(n + 1)$ -dimensional compact manifold with a pseudoconvex Mizohata structure is equivalent to the standard Mizohata structure on the sphere  $\mathbb{S}^{n+1}$ . If an  $(n + 1)$ -dimensional connected compact manifold with a nontrivial abelian fundamental group carries a pseudoconvex Mizohata structure, then it is equivalent to a structure on  $\mathbb{S}^1 \times \mathbb{S}^n$ . (Received August 27, 2014)