

1086-53-951

Ken'ichi Sekiya* (kenichisekiya.g@gmail.com). *Generalized almost contact structures and generalized Sasakian structures*. Preliminary report.

We introduce generalized almost contact structures which admit the B -field transformations on odd dimensional manifolds. We provide definition of generalized Sasakian structures from the view point of the generalized almost contact structures. We obtain a generalized Sasakian structure on a non-compact manifold which does not arise as a pair of ordinary Sasakian structures. However we show that a generalized Sasakian structure on compact 3-dimensional manifold is equivalent to a pair of Sasakian structures with the same metric. (Received September 17, 2012)