

Vaisman manifolds, transverse Kähler-Ricci flow and Einstein-Weyl structures

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We give a brief account on Vaisman manifolds and construct a transverse deformation of this manifolds using a potential function. The deformation changes the complex structure, but preserves the canonical foliation. Then we use the transverse Kähler-Ricci flow to deform the Vaisman metric into another Vaisman metric with a transverse Kähler-Einstein structure. We investigate the interplay with Einstein-Weyl structures in the setting of Vaisman manifolds. Some examples are also provided to illustrate the main results.

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Duración: 1 hora

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