1056-53-375   **Jörg Frauendiener*** (`joergf@maths.otago.ac.nz`), Dept. of Mathematics and Statistics, PO Box 56, Dunedin, 9010, New Zealand. *Local twistors and the conformal field equations.*

The conformal field equations of General Relativity are a conformally invariant generalisation of Einstein's vacuum field equations. In this presentation we discuss the origin of the conformal field equations and their main properties. Furthermore, we establish a link between them, the geometry of local twistors and tractor calculus. (Received September 02, 2009)