DIFTA

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Peter Lindqvist

The Last Great Scalar Equation

Abstract: The equation

$$\sum_{i,j=1}^{n} \frac{\partial u}{\partial x_j} \frac{\partial u}{\partial x_k} \frac{\partial^2 u}{\partial x_j \partial x_k} = 0$$

har recently been rediscovered, this time in connexion with a game. It was suggested 44 years ago by Carleson, who wanted to better understand the inner functions. It has also been rediscovered in image processing.