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## Bonuses from $G_2$ structures

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A  $G_2$  structure on a manifold can be defined in terms of the existence of a covariantly constant spinor, so naturally arise in SUSY preserving string compactifications. Such manifolds always admit extra structures, tied to the existence of families of nowhere vanishing vector fields. I will introduce these structures and some of their properties, and indicate the relevance for physics.

**Primary author:** MAGILL, Matthew (Uppsala University)

**Co-authors:** Prof. DE LA OSSA, Xenia (University of Oxford); LARFORS, Magdalena (Uppsala University)

**Presenter:** MAGILL, Matthew (Uppsala University)