1056-53-1661 **George Arthur Sparling*** (`gnilraps@gmail.com`), 301 Thackeray Hall, University of Pittsburgh, Pittsburgh, PA 15260. *The exceptional Lie group $\mathbb{G}_2$ and gravity.*

It will be shown that the Lie group $\mathbb{G}_2$ arises naturally in Einstein's gravity. Then the $\mathbb{G}_2$ approach will be linked to the primordial theory of the author and Phillip Tillman. (Received September 22, 2009)