## Instantons on the Exceptional Holonomy Manifolds of Bryant and Salamon

## Andrew Clarke UF Rio de Janeiro

## Resumo

We give a construction of  $G_2$  and Spin(7) instantons on exceptional holonomy manifolds constructed by Bryant and Salamon, by using an ansatz of spherical symmetry coming from the manifolds being the total spaces of rank-4 vector bundles. In the  $G_2$  case, we show that, in the asymptotically conical model, the connections are asymptotic to Hermitian Yang-Mills connections on the nearly Kähler  $S^3 \times S^3$ .