

1077-58-2850 **Rebecca E Field*** (fieldre@math.jmu.edu), MSC 1911, James Madison University,
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We use the descent spectral sequence to compute the complex oriented cohomology of the classifying space for the exceptional group G_2 . This gives it as a quotient of the image of $BSpin_7$ in BSO_7 . If time permits, I will explain how this enables one to compute the Chow groups of BG_2 , even though the descent spectral sequence fails for higher Chow groups (as there are no Nisnevich sections for the fibrations we use). (Received September 22, 2011)